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LABORATORY LOCATION: (PERMANENT LABORATORY) 	Jabatan Patologi, Hospital Pakar Sultanah Fatimah Jalan Salleh Bandar Maharani, 84000 Muar, Johor. , 84000, JOHOR MALAYSIA
ACCREDITED SINCE :	19 MARCH 2025
FIELD(S) OF MEDICAL TESTING :	CHEMICAL PATHOLOGY CYTOPATHOLOGY HAEMATOLOGY HISTOPATHOLOGY 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 Communiqué, November 2021)

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CENTRAL LOCATION	Jabatan Patologi, Hospital Pakar Sultanah Fatimah Jalan Salleh Bandar Maharani, 84000 Muar, Johor. , 84000, Johor
FIELD(S) OF MEDICAL TESTING :	CHEMICAL PATHOLOGY, CYTOPATHOLOGYHAEMATOLOGYHISTOPATHOLOGYMEDICAL MICROBIOLOGY

SCOPE OF MEDICAL TESTING : CHEMICAL PATHOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods,Specifications/ Equipment/Techniques Used
Sterile Body Fluid	Culture & sensitivity	Manual method as documented in:
	Culture & sensitivity	a) MK-HPSF-PAT-MC-05 (Manual Kerja Pengendalian Spesimen Sistem Pernafasan (Respiratori))

SCOPE OF MEDICAL TESTING : CYTOPATHOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods,Specifications/ Equipment/Techniques Used
Fine Needle Aspirates (fna) Breast	FNA Cytology Examination	Procedures and technique as documented in PK-HPSF-PAT- SI-01 PROCESS HANDLING OF CYTOLOGY SPECIMEN
Gynaecological Specimens	Gynaecological Cytology Examination - Liquid based cytology - Conventional	Procedures and technique as documented in PK-HPSF-PAT- SI-01 PROCESS HANDLING OF CYTOLOGY SPECIMEN + PK- HPSF-PAT-SI-02 HANDLING OF
	Gynaecological Cytology Examination - Liquid based cytology - Conventional	OUTSOURCE AND REFERRAL CYTOLOGY
	Gynaecological Cytology Examination - Liquid based cytology - Conventional	SPECIMEN
	Gynaecological Cytology Examination - Liquid based cytology - Conventional	MK-HPSF-PAT-SI-07 HANDLING OF
	Gynaecological Cytology Examination - Liquid based cytology - Conventional	PAPSMEAR (CONVENTIONAL PAPSMEAR AND LIQUID BASED CYTOLOGY

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	Gynaecological Cytology Examination - Liquid based cytology - Conventional	MK -HPSF-PAT-SI-06 MAINTENANCE OF
	Gynaecological Cytology Examination - Liquid based cytology - Conventional	AUTOSTAINER CYTOLOGY
	Gynaecological Cytology Examination - Liquid based cytology - Conventional	MPT-HPSF-PAT-SI-01 Papanicolaou Staining
	Gynaecological Cytology Examination	Management of conventional pap smear slides and Reports As documented in HTPG/JP/CTY/AK-01
	Gynaecological Cytology Examination	Gynaecological conventional pap smear As documented in HTPG/JP/CTY/AK-08
	Gynaecological Cytology Examination	Papanicalaou staining procedure automated As documented in HTPG/JP/CTY/AK-11
	Non-Gynaecological Cytology Examination	Direct Smear Centrifugation Papanicolaou Staining (Automated)
	Non-Gynaecological Cytology Examination	Procedure and technique as document in PK-HPSF-PAT-SI-01 PROCESS HANDLING OF CYTOLOGY SPECIMEN
	Non-Gynaecological Cytology Examination	PK-HPSF-PAT-SI-02 HANDLING OF
Non-gynaecological Specimens	Non-Gynaecological Cytology Examination	OUTSOURCE AND REFERRAL CYTOLOGY
	Non-Gynaecological Cytology Examination	SPECIMEN
	Non-Gynaecological Cytology Examination	MK-HPSF-PAT-SI-03 HANDLING OF NON
	Non-Gynaecological Cytology Examination	GYNAE SPECIMEN
	Non-Gynaecological Cytology Examination	MK -HPSF-PAT-SI-06 MAINTENANCE OF
	Non-Gynaecological Cytology Examination	AUTOSTAINER CYTOLOGY
	Non-Gynaecological Cytology Examination	MPT-HPSF-SI-01 Papanicolaou Staining + MPT-HPSF-SI-02 Diff quick stain MPT-HPSF-SI-03 Preparation of cell block

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Non-Gynaecological Cytology Examination	Management of non-gynaecology specimens, Slides and Reports As documented in HTPG/JP/CTY/AK-01	
Non-Gynaecological Cytology Examination	Non-gynaecology body fluids As documented in HTPG/JP/CTY/AK-02	
Non-Gynaecological Cytology Examination	Non-gynaecology cerebral spinal fluid (CSF) and urine As documented in HTPG/JP/CTY/AK-03	
Non-Gynaecological Cytology Examination	Non-gynaecology sputum As documented in HTPG/JP/CTY/AK-04	
Non-Gynaecological Cytology Examination	Non-gynaecology bronchial brushing As documented in HTPG/JP/CTY/AK-05	
Non-Gynaecological Cytology Examination	Non-gynaecology tzanck smear As documented in HTPG/JP/CTY/AK-06	
Non-Gynaecological Cytology Examination	Fixation of specimen As documented in HTPG/JP/CTY/AK-10	
Non-Gynaecological Cytology Examination	Papanicalaou staining procedure automated As documented in HTPG/JP/CTY/AK-11	
Non-Gynaecological Cytology Examination	May Grunwald ? Giemsa (MGG) manual staining procedure As documented in HTPG/JP/CTY/AK-13	
Non-Gynaecological Cytology Examination	Cell block preparation As documented in HTPG/JP/CTY/AK-15	
Thyroid Lymph Nodes Salivary Glands	FNA Cytology Examination	PK-HPSF-PAT-SI-02 HANDLING OF OUTSOURCE AND REFERRAL CYTOLOGY SPECIMEN MK-HPSF-PAT-SI-02 FINE NEEDLE
	FNA Cytology Examination	ASPIRATION CYTOLOGY kel 4 (1.1.2023) MPT-HPSF-SI-02 DIFF QUICK STAIN
	FNA Cytology Examination	MK -HPSF-PAT-SI-06 MAINTENANCE OF
	FNA Cytology Examination	AUTOSTAINER CYTOLOGY
	FNA Cytology Examination	MPT-HPSF-SI-03 PREPARATION OF
	FNA Cytology Examination	CELLBLOCK
	FNA Cytology Examination	MPT-HPSF-SI- 04 DESTAINING

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FNA Cytology Examination	PROCEDURE
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SCOPE OF MEDICAL TESTING : HAEMATOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Blood	Full Blood Count and differential count	Hydrodynamic focusing impedance, SLS hemoglobinometry and semi-conductor fluorescent flow cytometry / Sysmex XN-1000 as documented in:
	Full Blood Count and differential count	a) PK-HPSF-PAT-HM-01 (Prosedur Kualiti Pengendalian Spesimen di Unit Hematologi)
	Full Blood Count and differential count	b) PK-HPSF-PAT-HM-03 (Prosedur Kualiti Pengurusan Kawalan Mutu Dalam Hematologi)
	Full Blood Count and differential count	c) PK-HPSF-PAT-HM-05 (Prosedur Kualiti Pengurusan Sampel Pos Analisis Hematologi)
	Full Blood Count and differential count	qd) PK-HPSF-PAT-HM-06 (Prosedur Kualiti Pengurusan Semakan Laporan Keputusan)
	Full Blood Count and differential count	e) MK-HPSF-PAT-HM-01 (Manual Kerja Pengendalian Peralatan Hematology Analyser)
	Full Blood Count and differential count	f) MK-HPSF-PAT-HM-01 (Manual Kerja Validasi Keputusan Ujian Full Blood Count)
	Full Blood Count and differential count	g) MK-HPSF-PAT-HM-05 (Pengendalian Sistem HCLAB)
	Full Blood Count and differential count	h) MK-HPSF-PAT-HM-10 (Manual Kerja Pengendalian Spesimen STAT/Urgent)
	Full Blood Count and differential count	i) MK-HPSF-PAT-HM-07 (Manual Kerja Pengendalian Peralatan Automated Slide Stainer)
	Full Blood Count and differential count	i) MK-HPSF-PAT-HM-13 (Pengiraan Measurement Uncertainty)
	Full Blood Count and differential count	k) MPT-HPSF-PAT-HM-01 (Manual Prosedur Teknikal Ujian Rutin Hematologi)
	Reticulocytes count	Semi-conductor fluorescent flow cytometry / Sysmex XN-1000 as documented in:

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Reticulocytes count	a) PK-HPSF-PAT-HM-01 (Prosedur Kualiti Pengendalian Spesimen di Unit Hematologi)
Reticulocytes count	b) PK-HPSF-PAT-HM-03 (Prosedur Kualiti Pengurusan Kawalan Mutu Dalam Hematologi)
Reticulocytes count	c) PK-HPSF-PAT-HM-05 (Prosedur Kualiti Pengurusan Sampel Pos Analisis Hematologi)
Reticulocytes count	qd) PK-HPSF-PAT-HM-06 (Prosedur Kualiti Pengurusan Semakan Laporan Keputusan)
Reticulocytes count	e) MK-HPSF-PAT-HM-01 (Manual Kerja Pengendalian Peralatan Hematology Analyser)
Reticulocytes count	f) MK-HPSF-PAT-HM-05 (Pengendalian Sistem HCLAB)
Reticulocytes count	g) MK-HPSF-PAT-HM-10 (Manual Kerja Pengendalian Spesimen STAT/Urgent)
Reticulocytes count	h) MK-HPSF-PAT-HM-13 (Pengiraan Measurement Uncertainty)
Reticulocytes count	i) MPT-HPSF-PAT-HM-01 (Manual Prosedur Teknikal Ujian Rutin Hematologi)
Peripheral Blood Film (PBF)	Manual Method of Leishman Staining as documented in: a) PK-HPSF-PAT-HM-01 (Prosedur Kualiti Pengendalian Spesimen di Unit Hematologi)
Peripheral Blood Film (PBF)	b) PK-HPSF-PAT-HM-03 (Prosedur Kualiti Pengurusan Kawalan Mutu Dalam Hematologi)
Peripheral Blood Film (PBF)	c) PK-HPSF-PAT-HM-05 (Prosedur Kualiti Pengurusan Sampel Pos Analisis Hematologi)
Peripheral Blood Film (PBF)	qd) PK-HPSF-PAT-HM-06 (Prosedur Kualiti Pengurusan Semakan Laporan Keputusan)
Peripheral Blood Film (PBF)	e) MK-HPSF-PAT-HM-04 (Manual Kerja Prosedur Perwarnaan)
Peripheral Blood Film (PBF)	f) MK-HPSF-PAT-HM-10 (Manual Kerja Pengendalian Spesimen STAT/Urgent)
Peripheral Blood Film (PBF)	g) MK-HPSF-PAT-HM-05 (Pengendalian Sistem HCLAB)

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Peripheral Blood Film (PBF)	h) MPT-HPSF-PAT-HM-01 (Manual Prosedur Teknikal Ujian Rutin Hematologi)
Culture & sensitivity	BACTEC Fluorescent technology and manual method as documented in:
Culture & sensitivity	a) MK-HPSF-PAT-MC-01 (Manual Kerja Pengendalian Spesimen Darah)
Culture & sensitivity	b) MK-HPSF-PAT-MC-16 (Manual Kerja Pengendalian Mesin Blood Analyser)
BFMP	Giemsa stain as documented in:
BFMP	a) MK-HPSF-PAT-MC-12 (Manual Kerja Pengendalian Spesimen Parasitologi)
BFMP	b) MPT-HPSF-PAT-MC-1.0 (Manual Prosedur Teknikal: Staining Preparation)
The above scope of 14 tests is under Serology & Parasitology unit.	Prosedur Kualiti: a) PK-HPSF-PAT-MC-01 (Prosedur Kualiti Pengendalian Spesimen di Unit Mikrobiologi)
The above scope of 14 tests is under Serology & Parasitology unit.	b) PK-HPSF-PAT-MC-02 (Prosedur Kualiti Pengendalian Spesimen Mikrobiologi ke Makmal Rujukan)
The above scope of 14 tests is under Serology & Parasitology unit.	c) PK-HPSF-PAT-MC-04 (Prosedur Kualiti Pengendalian Sisa di Unit Mikrobiologi)
The above scope of 14 tests is under Serology & Parasitology unit.	Manual Kerja:
The above scope of 14 tests is under Serology & Parasitology unit.	4 MK-HPSF-PAT-MC-20 (Manual Kerja Pengendalian Sistem LIS (Filemaker system))
The above scope of 14 tests is under Serology & Parasitology unit.	MK-HPSF-PAT-MC-21 (Manual Kerja Pengurusan Ujian Semasa Offline)
The above scope of 14 tests is under Serology & Parasitology unit.	MK-HPSF-PAT-MC-23 (Manual Kerja Pengendalian Autoklaf)
The above scope of 14 tests is under Serology & Parasitology unit.	MK-HPSF-PAT-MC-26 (Manual Kerja Internal & External Quality Control in Serology)
The above scope of 14 tests is under Serology & Parasitology unit.	MK-HPSF-PAT-MC-27 (Manual Kerja Method Verification in Microbiology Unit)

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Detection of Beta	Multiplex-GAP PCR as documented in
Thalassaemia	IMR/CaRC/HAEM/22/2201/03(08)
Lymphocyte Subset Enumeration (TBNK)	Flowcytometry as documented in IMR/AIRC/PID/SOP/1
Human Leukocyte Antigen (HLA) Crossmatch Test	Microlymphocytotoxicity Test as documented in
(HLA) Crossmatch Test	IMR/AIRC/TI/SOP/1
Fragile X Syndrome	CGG Repeats Analysis For Fragile-X Syndrome
(FRAXA)	(FMR1/FRAXA Gene) as documented in
(FRAXA)	IMR/SDC/UMD/SOP-14
Prader Willi Syndrome	Methylation-specific -“MLPA as documented in
Prader Willi Syndrome	IMR/SDC/UMD/SOP-20
Angelman Syndrome	Methylation-specific -“MLPA as documented in
Angelman Syndrome	IMR/SDC/UMD/SOP-20
Spinal Muscular Atrophy	Gene Dosage by MLPA as documented in
Spinal Muscular Atrophy	IMR/SDC/UMD/SOP-19
Mitochondrial Diseases	PCR and Sanger Sequencing as documented in
(MELAS, MERRF, NARP, Leigh Syndrome, LHON)	IMR/SDC/UMD/SOP-1 and IMR/SDC/UMD/SOP-17
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DNA Sequencing (Sanger)	PCR and Sanger Sequencing as documented in
DNA Sequencing (Sanger)	IMR/SDC/UMD/SOP-1 and IMR/SDC/UMD/SOP-17
Spinocerebellar Ataxia (Type 1,2,3,6 and 7)	Fragment Analysis as documented in IMR/SDC/UMD/SOP 29
POLG-related Disorders	PCR and Sanger Sequencing as documented in
POLG-related Disorders	IMR/SDC/UMD/SOP-1 and IMR/SDC/UMD/SOP-17
pH	Potentiometric /Gem Premier 3500 As documented in HSNI / PAT / CP / AK-03
pco2	Potentiometric /Gem Premier 3500 As documented in HSNI / PAT / CP / AK-03
pO2	Amperometric /Gem Premier 3500 As documented in HSNI / PAT / CP / AK-03
HbA1c	High Performance Liquid Chromatography/ Biorad D10 As documented in HSNI / PAT / CP / AK-04
Culture & Sensitivity Testing	Semi-automated Method As Documented in HSNI/PAT/MB/AK-1
Culture &Sensitivity	Macroscopic Examination, Cell Count, Culture, Identification and Sensitivity Test as documented in
Culture &Sensitivity	HS/JP/W1(MB:10)- 002/Section 11
Malaria Parasite	Microscopy Examination, Thick & Thin Blood Smear, and GiemsaStainas documented in
Malaria Parasite	HS/JP/WI(MB:10)- 012\Section 2
Microfilaria	Microscopy Examination, Thick & Thin Blood Smear, and Giemsa Stain as documented in HS/JP/WI(MB:10)- 012\Section3
Gram stain, Culture & Sensitivity	Manual method As documented in HTPG/JP/MIC/AK-03, HTPG/JP/MIC/AK-24, HTPG/JP/MIC/AK-29 and HTPG/JP/MIC/AK-32
Total BHCG	Abbott Architect C18200 based on Chemiluminescent Microparticle Immunoassay (CMIA) technology as documented in LWI-IH33

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	IPTH	Abbott Architect based on Chemiluminescent Microparticle Immunoassay (CMIA) technology as documented in LWI-IH26
	Blood Grouping	ABO Rh Grouping (Tube Method & Gel Card Method) Method as documented in
	Blood Grouping	SASMEC@IIUM/PALM/TRAN/WI 101 and SASMEC @IIUM/PALM/TRAN/W1102
	Antibody Screening	Indirect Coombs test (Gelcard Method & Tube Method) Method as documented in SASMEC@IIUM/PALM/TRAN/WI105 And SASMEC@IIUM/PALM/TRAN/WI106
	Compatibility Testing	Group Crossmatch (Tube method & Gelcard method) Method as documented in
	Compatibility Testing	SASMEC@IIUM/PALM/TRAN/WI 107 and SASMEC @IIUM/PALM/TRAN/W1108
	Direct Antiglobulin Test (DAT)	Direct Coombs test (Tube Method & Gelcard Method) Method as documented in
	Direct Antiglobulin Test (DAT)	SASMEC@IIUM/PALM/TRAN/WI 103 and SASMEC@IIUM/PALM/TRAN/W1104
	Storage and release of blood and blood products to patients including blood procurement, production of blood components and activities prior to supply blood stock to transfusion testing	Management of Blood & Blood Component Stock Method as documented in SASMEC@IIUM/PALM/TRAN/WP05
	Microscopy ? Gram Stain	Gram staining method as documented in SASMEC@IIUM/PALM/MIC-W1313
	Culture, identification and Sensitivity	Culture, identification and Sensitivity methods as documented in; SASMEC@IIUM/PALM/MIC-W10201 SASMEC@IIUM/PALM/MIC-W10202 SASMEC@IIUM/PALM/MIC-WI0301 SASMEC@IIUM/PALM/MIC-WI10314 SASMEC@IIUM/PALM/MIC-WI0315 SASMEC@IIUM/PALM/MIC-W10205
Blood (plasma)	The following scope of 26 tests are under	Related quality document as in:

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routine biochemistry tests using AU5800 and DXC 700	a. PK-HPSF-PAT-CP-01 (Pengendalian Spesimen Darah bagi Ujian Biokimia)
analyzers:	b. MK-HPSF-PAT-CP-01 (Pengendalian Peralatar Biokimia (AU 5800, DXC700AU))
analyzers:	c. MPT-HPSF-PAT-CP-01 (Manual Prosedur Teknikal)
analyzers:	d. PK-HPSF-PAT-CP-07 (Prosedur Kualiti Unit Penyimpanan dan Pelupusan Spesimen Patologi Kimia)
analyzers:	e. MK-HPSF-PAT-CP-13 (Manual Kerja Evaluasi Variasi Lot to Lot Reagen)
analyzers:	f. MK-HPSF-PAT-CP-15 (Manual Kerja Pengiraan Uncertainty of Measurement)
analyzers:	g. MK-HPSF-PAT-CP-16 (Manual Kerja Pindaan Laporan Ujian)
analyzers:	h. MK-HPSF-PAT-CP-11 (Manual Kerja Pengurusan Kawalan Mutu Dalam di Unit Patologi Kimia)
Albumin	Bromocresol Green (BCG)
Alkaline Phosphatase (ALP)	PNPP, AMP Buffer UV without P5P
Alanine Transaminase	nan
(ALT) Amylase	G7PNP/PNP
5. Aspartate Transaminase (AST)	UV without P5P
Bilirubin Direct (adult) Bilirubin Total (adult) Calcium Total	Diazotization DPD Arsenazo III
Chloride	ISE indirect
10 Cholesterol Total	Cholesterol oxidase, esterase, peroxidase
11 Creatine Kinase	NAC activated
12 Creatinine	Alkaline picrate-kinetic, IFCC-IDMS std
13 Glucose	Hexokinase
14 HDL Cholesterol	Direct enzymatic colorimetric
15 Lactate Dehydrogenase (LDH)	Lactate to pyruvate
16. Magnesium	Xylidy! blue
17. Potassium	ISE indirect
18. Phosphate Inorganic 19. Protein Total	Phosphomolybdate-UV Biuret, reagent blank, end point
20. Sodium	ISE Indirect
21. Triglyceride	Enzymatic, end point
22. Urea	Urease, colorimetric
23. Uric acid (Urate)	Uricase, colorimetric
24. Total	TPTZ-deproteinization
25. Iron Binding Capacity, Unsaturated (UIBC)	Nitroso-PSAP

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26. Lactate	Lactate to Pyruvate
Prothrombin Time (PT) International Normalised Ratio (INR) Activated Partial Thromboplastin Time (APTT)	Multi-wavelength optical detection / Sysmex- CS2500 & Sysmex CS-1600 as documented in a) PK-HPSF-PAT-HM-01 (Prosedur Kualiti Pengendalian Spesimen di Unit Hematologi) b) PK-HPSF-PAT-HM-03 (Prosedur Kualiti Pengurusan Kawalan Mutu Dalam Hematologi)
Prothrombin Time (PT) International Normalised Ratio (INR) Activated Partial Thromboplastin Time (APTT)	c) PK-HPSF-PAT-HM-05 (Prosedur Kualiti Pengurusan Sampel Pos Analisis Hematologi)
Prothrombin Time (PT) International Normalised Ratio (INR) Activated Partial Thromboplastin Time (APTT)	qd) PK-HPSF-PAT-HM-06 (Prosedur Kualiti Pengurusan Semakan Laporan Keputusan)
Prothrombin Time (PT) International Normalised Ratio (INR) Activated Partial Thromboplastin Time (APTT)	e) MK-HPSF-PAT-HM-02 (Manual Kerja Pengendalian Peralatan Coagulation Analyser)
Prothrombin Time (PT) International Normalised Ratio (INR) Activated Partial Thromboplastin Time (APTT)	f) MK-HPSF-PAT-HM-05 (Manual Kerja Pengendalian Sistem HCLAB)
Prothrombin Time (PT) International Normalised Ratio (INR) Activated Partial Thromboplastin Time (APTT)	g) MK-HPSF-PAT-HM-12 (Manual Kerja Pengiraan Lot to Lot Verification)
Prothrombin Time (PT) International Normalised Ratio (INR) Activated Partial Thromboplastin Time (APTT)	h) MK-HPSF-PAT-HM-13 (Manual Kerja Pengiraan Measurement of Uncertainty)
Prothrombin Time (PT) International Normalised Ratio (INR) Activated Partial Thromboplastin Time (APTT)	i) MPT-HPSF-PAT-HM-01 (Manual Prosedur Teknikal Ujian Rutin Hematologi), Kel. 3
D-Dimer Quantitative Test	Automated Method based on Latex Particle Immunoturbidimetry assay technique as documented in:
D-Dimer Quantitative Test	a) PK-HPSF-PAT-HM-01 (Prosedur Kualiti Pengendalian Spesimen di Unit Hematologi)
D-Dimer Quantitative Test	b) PK-HPSF-PAT-HM-03 (Prosedur Kualiti Pengurusan Kawalan Mutu Dalam Hematologi)

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	D-Dimer Quantitative Test	c) PK-HPSF-PAT-HM-05 (Prosedur Kualiti Pengurusan Sampel Pos Analisis Hematologi)
	D-Dimer Quantitative Test	qd) PK-HPSF-PAT-HM-06 (Prosedur Kualiti Pengurusan Semakan Laporan Keputusan)
	D-Dimer Quantitative Test	e) MK-HPSF-PAT-HM-02 (Manual Kerja Pengendalian Peralatan Coagulation Analyser)
	D-Dimer Quantitative Test	f) MK-HPSF-PAT-HM-05 (Manual Kerja Pengendalian Sistem HCLAB)
	D-Dimer Quantitative Test	g) MK-HPSF-PAT-HM-12 (Manual Kerja Pengiraan Lot to Lot Verification)
	D-Dimer Quantitative Test	h) MK-HPSF-PAT-HM-13 (Manual Kerja Pengiraan Measurement of Uncertainty)
	D-Dimer Quantitative Test	i) MPT-HPSF-PAT-HM-01 (Manual Prosedur Teknikal Ujian Rutin Hematologi)
Blood (serum)	The following scope of 18 tests are under immunoassay using DXI 600:	Related quality document as in: a. PK-HPSF-PAT-CP-02 (Pengendalian Spesimen darah bagi Ujian Immunoassay)
	The following scope of 18 tests are under immunoassay using DXI 600:	b. MK-HPSF-PAT-CP-03 (Manual Kerja Pengendalian Peralatan Immunoassay (DXI 600))
	The following scope of 18 tests are under immunoassay using DXI 600:	c. MPT-HPSF-PAT-CP-01 (Manual Prosedur Teknikal)
	The following scope of 18 tests are under immunoassay using DXI 600:	d. PK-HPSF-PAT-CP-07 (Prosedur Kualiti Unit Penyimpanan dan Pelupusan Spesimen Patologi Kimia)
	The following scope of 18 tests are under immunoassay using DXI 600:	e. MK-HPSF-PAT-CP-13 (Manual Kerja Evaluasi Variasi Lot to Lot Reagen)
	The following scope of 18 tests are under immunoassay using DXI 600:	f. MK-HPSF-PAT-CP-15 (Manual Kerja Pengiraan Uncertainty of Measurement)
	The following scope of 18 tests are under immunoassay using DXI 600:	g. MK-HPSF-PAT-CP-16 (Manual Kerja Pindaan Laporan Ujian)
	The following scope of 18 tests are under immunoassay using DXI 600:	h. MK-HPSF-PAT-CP-11 (Manual Kerja Pengurusan Kawalan Mutu Dalam di Unit Patologi Kimia)
	Alpha Feto-Protein (AFP)	Chemiluminescent immunoassay (CMIA)
	Beta-Human Chorionic Gonadotropin	Chemiluminescent immunoassay (CMIA)

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Cancer antigen 125 (CA 125)	Chemiluminescent immunoassay (CMIA)
Carcinoembryonic Antigen (CEA)	Chemiluminescent immunoassay (CMIA)
Ferritin	Chemiluminescent immunoassay (CMIA)
Follicle Stimulating Hormone (FSH)	Chemiluminescent immunoassay (CMIA)
Tri-Iodothyronine (Free T3)	Chemiluminescent immunoassay (CMIA)
Thyroxine Free (Free T4)	Chemiluminescent immunoassay (CMIA)
Free T4 Cord Blood	Chemiluminescent immunoassay (CMIA)
10. Luteinising Hormone (LH) Blood	Chemiluminescent immunoassay (CMIA)
11 Prolactin	Chemiluminescent immunoassay (CMIA)
12. Progesterone	Chemiluminescent immunoassay (CMIA)
13. Prostate Specific Antigen (PSA) Total	Chemiluminescent immunoassay (CMIA)
14. Thyroid Stimulating Hormone (TSH)	Chemiluminescent immunoassay (CMIA)
15. TSH Cord Blood	Chemiluminescent immunoassay (CMIA)
16. Cortisol	Chemiluminescent immunoassay (CMIA)
17. Vitamin B12	Chemiluminescent immunoassay (CMIA)
18 Folate	Chemiluminescent immunoassay (CMIA)
The following scope of 3 tests are under	Related quality document as in:
Special Protein using DXC 700 analyzers:	a. PK-HPSF-PAT-CP-01 (Pengendalian Spesimen Darah bagi Ujian Biokimia)
Special Protein using DXC 700 analyzers:	b. MK-HPSF-PAT-CP-01 (Pengendalian Peralatan Biokimia (AU 5800, DXC700AU))
Special Protein using DXC 700 analyzers:	c. MPT-HPSF-PAT-CP-01 (Manual Prosedur Teknikal)
Special Protein using DXC 700 analyzers:	d. PK-HPSF-PAT-CP-07 (Prosedur Kualiti Unit Penyimpanan dan Pelupusan Spesimen Patologi Kimia)
Special Protein using DXC 700 analyzers:	e. MK-HPSF-PAT-CP-13 (Manual Kerja Evaluasi Variasi Lot to Lot Reagen)

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	Special Protein using DXC 700 analyzers:	f. MK-HPSF-PAT-CP-15 (Manual Kerja Pengiraan Uncertainty of Measurement)
	Special Protein using DXC 700 analyzers:	g. MK-HPSF-PAT-CP-16 (Manual Kerja Pindaan Laporan Ujian)
	Special Protein using DXC 700 analyzers:	h. MK-HPSF-PAT-CP-11 (Manual Kerja Pengurusan Kawalan Mutu Dalam di Unit Patologi Kimia)
	1. C Reactive Protein	Immunoturbidometric
	1. C Reactive Protein	Immunoturbidometric
	3. C4	Immunoturbidometric
	Blood (whole Blood)	(Glycated Hemoglobin)
	(Glycated Hemoglobin)	Ion-Exchange (HPLC) / D10 (Biorad) / Related quality document as in:
	(Glycated Hemoglobin)	a. PK-HPSF-PAT-CP-04 (Pengendalian Spesimen Whole Blood (ABG dan HbA1c))
	(Glycated Hemoglobin)	b. MK-HPSF-PAT-CP-05 (Manual Kerja Pengendalian Peralatan HbA1C(D10))
	(Glycated Hemoglobin)	c. MPT-HPSF-PAT-CP-01 (Manual Prosedur Teknikal)
	(Glycated Hemoglobin)	d. PK-HPSF-PAT-CP-07 (Prosedur Kualiti Unit Penyimpanan dan Pelupusan Spesimen Patologi Kimia)
	(Glycated Hemoglobin)	e. MK-HPSF-PAT-CP-13 (Manual Kerja Evaluasi Variasi Lot to Lot Reagen)
	(Glycated Hemoglobin)	f. MK-HPSF-PAT-CP-16 (Manual Kerja Pindaan Laporan Ujian)
	(Glycated Hemoglobin)	g. MK-HPSF-PAT-CP-11 (Manual Kerja Pengurusan Kawalan Mutu Dalam di Unit Patologi Kimia)
	Bone Marrow Aspirate	Bone Marrow Aspiration (BMA)
	Bone Marrow Aspiration (BMA)	Manual Method of May Grunwald Giemsa and Perl? Stain Technique as documented in: a) PK-HPSF-PAT-HM-02 (Prosedur Kualiti Pengurusan Permohonan Bone Marrow Aspiration)
	Bone Marrow Aspiration (BMA)	b) PK-HPSF-PAT-HM-06 (Prosedur Kualiti Pengurusan Semakan Laporan Keputusan)
	Bone Marrow Aspiration (BMA)	c) MK-HPSF-PAT-HM-04 (Manual Kerja Prosedur Perwarna)
	Bone Marrow Aspiration (BMA)	qd) PK-HPSF-PAT-HM-03 (Prosedur Kualiti Pengurusan Kawalan Mutu Dalam)

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	Bone Marrow Aspiration (BMA)	e) MK-HPSF-PAT-05 (Manual Kerja Pengendalian Sistem HCLAB)
	Bone Marrow Aspiration (BMA)	f) MPT-HPSF-PAT-HM-02 (Manual Prosedur Teknikal Ujian Hematologi Khas)

SCOPE OF MEDICAL TESTING : HISTOPATHOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Formalin Fixed Paraffin Embedded Tissue	Haematoxylin & Eosin Staining	Procedures and Techniques as documented in Manual Kerja MK-HPSF-PAT- AP-03 TISSUE SECTIONING
	Haematoxylin & Eosin Staining	AND STAINING
	Haematoxylin & Eosin Staining	MK-HPSF-PAT-AP-08 HANDLING OF
	Haematoxylin & Eosin Staining	HISTOPATHOLOGY EQUIPMENTS
	Haematoxylin & Eosin Staining	MK-HPSF-PAT-AP-05 MANAGEMENT OF
	Haematoxylin & Eosin Staining	QUALITY CONTROL
	Haematoxylin & Eosin Staining	MPT-HPSF-PAT-AP-01 HAEMATOXYLIN AND
	Haematoxylin & Eosin Staining	EOSIN STAINING
	Histochemical Stains: Mucicarmine	MK-HPSF-PAT-AP-05 MANAGEMENT OF QUALITY CONTROL
	Ziehl ?eelsen	nan
	Wade Fite	MPT-HPSF-PAT-AP-02 HISTOCHEMISTRY
	Giemsa	STAINING
	Gram	nan
	GMS	MK-HPSF-PAT-AP-08 HANDLING OF
	Reticulin	HISTOPATHOLOGY EQUIPMENTS
	Masson trichome	nan
	Perls	nan
	Congo red Oil Red O	nan
	Von kossa	nan
	Masson Fontana	nan
	PAS	nan
	PAS+D	nan
	PAS-alcian blue	nan
	PAAG	nan

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	Immunohistochemical	MK-HPSF-PAT-AP-05 MANAGEMENT OF	
	Stains:	QUALITY CONTROL	
	ER	nan	
	PR	MPT-HPSF-PAT-AP-03	
	LCA	IMMUNOHISTOCHEMICAL STAINING	
	CD 20	nan	
	CD 3	MK-HPSF-PAT-AP-08 HANDLING OF	
	HMWCK	HISTOPATHOLOGY EQUIPMENTS	
	PANCK	nan	
	HMB45	nan	
	TTF-1	nan	
	P63	nan	
	VIMENTIN	nan	
	DESMIN	nan	
	SMA	nan	
	MYOGENIN	nan	
	S-100	nan	
	CHROMOGRANIN	nan	
	SYNAPTOPHYSIN	nan	
	THYROGLOBULIN	nan	
	EMA	nan	
	CEA	nan	
	CD 117	nan	
	CA 125	nan	
	CYCLIN D1	nan	
	CD 21	nan	
	CDX 2	nan	
	CD 68	nan	
	NAPPSIN A	nan	
	KAPPA	nan	
	CD 8	nan	
	P16	nan	
	Routine Tissue Samples	Grossing of tissue and preparation of slides	Procedures and Techniques as documented in PK-HPSF-PAT-AP-01 HANDLING OF ANATOMY SPECIMEN
		Grossing of tissue and preparation of slides	PK-HPSF-PAT-AP-02 MANAGEMENT OF
		Grossing of tissue and preparation of slides	REFERRAL CASES
Grossing of tissue and preparation of slides		MK-HPSF-PAT-AP-01 GROSSING OF	
Grossing of tissue and preparation of slides		SPECIMEN AND DECALCIFICATION	
Grossing of tissue and preparation of slides		MK-HPSF-PAT-AP-02 TISSUE PROCESSING	

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	Grossing of tissue and preparation of slides	AND EMBEDDING
	Grossing of tissue and preparation of slides	MK-HPSF-PAT-AP-03 TISSUE SECTIONING
	Grossing of tissue and preparation of slides	AND STAINING
	Grossing of tissue and preparation of slides	MK-HPSF-PAT-AP-04 SLIDES MOUNTING
	Grossing of tissue and preparation of slides	AND LABELING
	Grossing of tissue and preparation of slides	MK-HPSF-PAT-AP-05 MANAGEMENT OF
	Grossing of tissue and preparation of slides	QUALITY CONTROL
	Grossing of tissue and preparation of slides	MK-HPSF-PAT-AP-08 HANDLING OF
	Grossing of tissue and preparation of slides	HISTOPATHOLOGY EQUIPMENTS
Staining	CD 15 CD 30	MK-HPSF-PAT-AP-05 MANAGEMENT OF QUALITY CONTROL
	CD 31	nan
	CD34	MPT-HPSF-PAT-AP-03
	CD 99	IMMUNOHISTOCHEMICAL STAINING
	CK7	nan
	CK 20	MK-HPSF-PAT-AP-08 HANDLING OF
	BCL 2	HISTOPATHOLOGY EQUIPMENTS
	CD5	nan
	CD 10	nan
	E CADHERIN	nan
	NSE	nan
	CALRETININ	nan
	WT 1	nan
	Ki 67	nan
	HER 2	nan
	MUM-1	nan
	BCL 6	nan
	CK5/6	nan
	MYELOPEROXIDASE	nan
	TDT	nan
	CD 138	nan
	CD 61	nan
	CD 56	nan
	PAX 5	nan
	P 40	nan
	Lambda	nan
	CD 8	nan

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Immunofluorescence	MK-HPSF-PAT-AP-08 HANDLING OF
test:	HISTOPATHOLOGY EQUIPMENTS
C3	nan
C4	MK-HPSF-PAT-AP-06 HANDLING OF RENAL/
IgG IgA IgM Fibrinogen	SKIN BIOPSY IMMUNOFLOURESCENCE STUDY MPT-HPSF-PAT-AP-04 IMMUNOFLOURESCENCE STAINING

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Csf	a) Culture & sensitivity	Manual method as documented in:
	a) Culture & sensitivity	a) MK-HPSF-PAT-MC-03 (Manual Kerja Pengendalian Spesimen CSF)
	b) Cell count + Bacterial antigen	b) MK-HPSF-PAT-MC-03 (Manual Kerja Pengendalian Spesimen CSF) c) ?MPT-HPSF- PAT-MG-12.2 (Manual Prosedur Teknikal Latex Agglutination
	d) Gram stain	Test) qd) MPT-HPSF-PAT- MC-5.1 (Manual Prosedur Teknikal: Staining Procedure ?Gram? Stain)
	e) Indian ink	e) MPT-HPSF-PAT-MC-5.2 (Manual Prosedur Teknikal: Staining Procedure ?Indian Ink)
	Culture & Sensitivity Testing & Microscopy	Manual Method As Documented in HSNI/PAT/MB/AK-2
	Cryptococcal Antigen	Lateral Flow as documented in HS/JP/W1(MB:10)-004/Section 28
Genital Specimen	Culture & sensitivity	Manual method as documented in:
	Culture & sensitivity	a) PK-HPSF-PAT-MC-03 (Prosedur Kualiti Pengurusan Spesimen Medicolegal)

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Culture & sensitivity	b) MK-HPSF-PAT-MC-04 (Manual Kerja Pengendalian Spesimen Nanah dan Tisu)
All Culture & sensitivity scope	Prosedur Kualiti: a) PK-HPSF- PAT-MC-01 (Prosedur Kualiti Pengendalian Spesimen di Unit Mikrobiologi)
All Culture & sensitivity scope	b) PK-HPSF-PAT-MC-02 (Prosedur Kualiti Pengendalian Spesimen Mikrobiologi ke Makmal Rujukan)
All Culture & sensitivity scope	c) PK-HPSF-PAT-MC-04 (Prosedur Kualiti Pengendalian Sisa di Unit Mikrobiologi)
All Culture & sensitivity scope	Manual Kerja:
All Culture & sensitivity scope	a) MK-HPSF-PAT-MC-17 (Manual Kerja Pengendalian Mesin Vitek)
All Culture & sensitivity scope	b) MK-HPSF-PAT-MC-09 (Manual Kerja Ujian Sensitiviti Antibiotik)
All Culture & sensitivity scope	c) MK-HPSF-PAT-MC-09 (Manual Kerja Penyediaan Media dan Ujian Biokimia)
All Culture & sensitivity scope	qd) MK-HPSF-PAT-MC-20 (Manual Kerja Pengendalian Sistem LIS (Filemaker system))
All Culture & sensitivity scope	e) MK-HPSF-PAT-MC-21 (Manual Kerja Pengurusan Ujian Semasa Offline)
All Culture & sensitivity scope	f) MK-HPSF-PAT-MC-22 (Manual Kerja Management of ATCC Stock Culture)
All Culture & sensitivity scope	9) MK-HPSF-PAT-MC-23 (Manual Kerja Pengendalian Autoklaf)
All Culture & sensitivity scope	Manual Prosedur Teknikal: a) MPT-HPSF-PAT-MC-5 (Manual Prosedur Teknikal Staining Procedure)
All Culture & sensitivity scope	b) MPT-HPSF-PAT-MC-6 (Manual Prosedur Teknikal Biochemical Test Procedure)
All Culture & sensitivity scope	c) MPT-HPSF-PAT-MC-7 (Manual Prosedur Teknikal Culture Technique)
All Culture & sensitivity scope	qd) MPT-HPSF-PAT-MC-8 (Manual Prosedur Teknikal API System Identification)

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	All Culture & sensitivity scope	e) MPT-HPSF-PAT-MC-12 (Manual Prosedur Teknikal Latex agglutination Test)
Serum	HIV Antigen/Antibody	Architect 12000 SR / CMIA technology as documented in:
	HIV Antigen/Antibody	a) PK-HPSF-PAT-MC-01 (Prosedur Pengendalian Spesimen di Unit Mikrobiologi)
	HIV Antigen/Antibody	b) PK-HPSF-PAT-MC-03 (Pengurusan Spesimen Medicolegal)
	HIV Antigen/Antibody	c) MK-HPSF-PAT-MC-14 (Manual Kerja Ujian Serologi (Bakteriologi dan Virologi))
	HIV Antigen/Antibody	qd) MK-HPSF-PAT-MC-18 Kel. (Manual Kerja Handling of Architect)
	HIV Antigen/Antibody	e) MPT-HPSF-PAT-MC-14.1 (Manual Prosedur Teknikal Chemiluminescence Immunoassay Test (CMIA))
	HIV 1/2 Supplementary	Serodia Particle Agglutination as documented in:
	HIV 1/2 Supplementary	a) PK-HPSF-PAT-MC-03 (Pengurusan Spesimen Medicolegal)
	HIV 1/2 Supplementary	b) MK-HPSF-PAT-MC-14 (Manual Kerja Ujian Serologi (Bakteriologi dan Virologi))
	HIV 1/2 Supplementary	c) MPT-HPSF-PAT-MC-10.2 (Manual Prosedur Teknikal Particle Agglutination)
	HCV Antibody	Architect 12000 SR / CMIA technology as documented in:
	HCV Antibody	a) PK-HPSF-PAT-MC-03 (Pengurusan Spesimen Medicolegal)
	HCV Antibody	b) MK-HPSF-PAT-MC-14 (Manual Kerja Ujian Serologi (Bakteriologi dan Virologi))
	HCV Antibody	c) MK-HPSF-PAT-MC-18 (Manual Kerja Handling of Architect)
	HCV Antibody	qd) MPT-HPSF-PAT-MC-14.2 (Manual Prosedur Teknikal Chemiluminescence Immunoassay Test (CMIA) ?HCV Antibody)
	HbsAg	Architect 12000 SR / CMIA technology as documented in:

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HbsAg	a) PK-HPSF-PAT-MC-03 (Prosedur Kualiti Pengurusan Spesimen Medicolegal)
HbsAg	b) MK-HPSF-PAT-MC-14 (Manual Kerja Ujian Serologi (Bakteriologi dan Virologi))
HbsAg	c) MK-HPSF-PAT-MC-18 (Manual Kerja Handling of Architect)
HbsAg	qd) MPT-HPSF-PAT-MC-14.4 (Manual Prosedur Teknikal Chemiluminescence Immunoassay Test (CMIA) - HBsAg)
anti-HBs	Architect 12i000 SR / CMIA technology as documented in:
anti-HBs	a) MK-HPSF-PAT-MC-14 (Manual Kerja Ujian Serologi (Bakteriologi dan Virologi))
anti-HBs	b) MK-HPSF-PAT-MC-18 (Manual Kerja Handling of Architect)
anti-HBs	c) MPT-HPSF-PAT-MC-14.3 (Manual Prosedur Teknikal Chemiluminescence Immunoassay Test (CMIA) ?Anti- HBs)
Rheumatoid Factor	Latex agglutination as documented in:
Rheumatoid Factor	a) MK-HPSF-PAT-MC-15 (Manual Kerja Ujian Immunologi)
Rheumatoid Factor	b) MPT-HPSF-PAT-MC-12.3 (Manual Prosedur Teknikal Latex agglutination Test - Rheumatoid Factor)
RPR	Latex agglutination as documented in:
RPR	a) MK-HPSF-PAT-MC-14 (Manual Kerja Ujian Serologi (Bakteriologi dan Virologi))
RPR	b) MPT-HPSF-PAT-MC-12.9 (Manual Prosedur Teknikal Latex agglutination Test ?Rapid Plasma Reagin)
TPPA	Particle Agglutination as documented in:
TPPA	a) MK-HPSF-PAT-MC-14 (Manual Kerja Ujian Serologi (Bakteriologi dan Virologi))

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Detection of total	In-house Microagglutination Test (MAT)
antileptospiral antibody	as documented in
using the	IMR/IDRC/BACT/SOP/34
microagglutination test	nan
(MAT)	nan
Anti-N-Methyl-D-Aspartate	documented in
	IMR/AIRC/AI/SOP/NMDAR-1
Alpha-1-Antitrypsin	A1AT Isofocusing as documented in
Phenotyping	IMR/SDC/PK/SOP-10 (SEBIA
Phenotyping	HYDRASIS electrophoresis system)
Transferrin Isoform	Capillary Electrophoresis as documented
Transferrin Isoform	in IMR/SDC/PK/SOP-9
Transferrin Isoform	(SEBIACAPILLARYS SYSTEM)
Acetaminophen	EMIT on Beckman Coulter AU5800 as documented in HS/JP/W1 (CP;07)-024 Test on Beckman Coulter AU 5800
Alpha feto protein	Immunoenzymatic assay on Dx1800 Beckman Coulter as documented in HS/JP/W1 (CP;07)- 027 Test on Dx1800 Immunoassay Analyzer
Alpha-1 antitrypsin	Immunoturbidimetry on Beckman Coulter AU5800 as documented in HS/JP/W1 (CP;07)- 024 Test on Beckman Coulter AU5800
Amikacin	EMIT on Beckman Coulter AU5800 as documented in (CP;07)-024Test on Beckman Coulter AU 5800
Anti-Thyroglobulin	Chemiluminescence on Dx1800 Beckman Coulter as documented in
Anti-Thyroglobulin	HS/JP/W1 (CP;07) -027 Test on Dx1800 Immunoassay Analyzer
Anti-Thyroid Peroxidase	Immunoenzymatic assay on Dx1800 Beckman Coulter as documented in
Anti-Thyroid Peroxidase	HS/JP/W1 (CP;07) -027 Test on Dx1800 Immunoassay Analyzer
Beta Human Chorionic	Immunoenzymatic assay on Dx1800 Beckman Coulter-as documented in
Gonadotrophin (beta- hCG)	HS/JP/W1 (CP;07) - 027 Test on Dx Immunoassay Analyzer

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C-Reactive Protein (CRP)	Immunoturbidimetry latex on Beckman Coulter AU5800 as documented in HS/JP/WI
C-Reactive Protein (CRP)	(CP;07) 024Test on Beckman Coulter AU5800
CA 19-19	Chemiluminescence on
CA 19-19	Beckman Coulter as documented in
CA 19-19	HS/JP/WI (CP:07)- 027 Test on Dxl800 Immunoassay Analyzer
CA 125	Chemiluminescence on Beckman Coulter as documented in
CA 125	HS/JP/WI (CP;07) -027 Test on Dxl800 Immunoassay Analyzer
Carbamazepine	Homogenous enzyme Immunoassay on Beckman Coulter AU5800 as documented in
Carbamazepine	HS/JP/WI (CP:07)- 024Test on Beckman Coulter AU5800
Carcinoembryonic Antigen (CEA)	Chemiluminescence on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP:07)- 027 Test on Dxl800 Immunoassay Analyzer
Caeruloplasmin	Immunoturbidimetry on Beckman Coulter AU5800 as documented in HS/JP/W1 (CP;07)- 024 Test on Beckman Coulter AU5800
Cholesterol, HDL	Immunology Inhibition Method on Beckman Coulter AU5800 as documented in HS/JP/WI
Cholesterol, HDL	(CP;07)-024 Test on Beckman Coulter AU 5800
Cholesterol, Total	CHOD ? PAP Method on Beckman Coulter AU5800 as documented in HS/JP/WI (CP;07)- 024 Test on Beckman Coulter AU 5800
Cholinesterase	GSCC (1994) Photometric Method on Beckman Coulter AU5800 as documented in
Cholinesterase	HS/JP/WI (CP;07)-024 Test on Beckman Coulter AU 5800
Complement C3	Immunoturbidimetry on Beckman Coulter AU5800 as documented in HS/JP/WI (CP;07)- 024 Test on Beckman Coulter AU 5800

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Complement C4	Immunoturbidimetry on Beckman Coulter AU5800 as documented in HS/JP/WI (CP;07)- 024 Test on Beckman Coulter AU 5800
Creatine Kinase MB (CKMB)	Immunoenzymatic assay on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP:07)- 027 Test on Dxl800 Immunoassay Analyzer
Digoxin	Immunoinhibition teston Beckman Coulter AU5800 as documented in HS/JP/WI (CP;07)- 024 Test on Beckman Coulter AU 5800
Ferritin	Chemiluminescence on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP:07)- 027 Test on Dxl800 Immunoassay Analyzer
Folate	Chemiluminescence on on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP:07)- 027 Test on Dxl800
Follicular Stimulating Hormone (FSH)	Chemiluminescence on on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP:07)- 027 Test on Dxl800 Immunoassay Analyzer
Immunoglobulin A (IgA)	Immunoturbidimetry on Beckman Coulter AU5800 as documented in HS/JP/WI (CP;07)- 024 Test on Beckman Coulter AU 5800
Immunoglobulin G (IgG)	Immunoturbidimetry on Beckman Coulter AU5800 as documented in HS/JP/WI (CP;07)- 024 Test on Beckman Coulter AU 5800
Immunoglobulin M (IgM)	Immunoturbidimetry on Beckman Coulter AU5800 as documented in HS/JP/WI (CP;07)- 024 Test on Beckman Coulter AU 5800
Iron	TPTZ coloured complex method on Beckman Coulter AU5800 as documented in HS/JP/WI
Iron	(CP;07)-024 Test on Beckman Coulter AU 5800
Luteinising Hormone (LH)	Chemiluminescence on on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP:07)- 027 Test on Dxl800 Immunoassay Analyzer
Phenobarbital	EMIT on Beckman Coulter AU5800 as

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Phenobarbital	documented in HS/JP/W1 (CP;07)-024 Test on Beckman Coulter AU 5800
Phenytoin	EMIT on Beckman Coulter AU5800 as
Phenytoin	documented in HS/JP/W1 (CP;07)-024 Test on Beckman Coulter AU 5800
Progesterone	Chemiluminescence on Dxl800 Beckman Coulter as documented in HS/JP/W1 (CP:07)- 027 Test on Dxl800 Immunoassay Analyzer
Prolactin	Chemiluminescence on on Dxl800 Beckman Coulter as documented in HS/JP/W1 (CP:07)- 027 Test on Dxl800 Immunoassay Analyzer
Prostatic Specific Antigen, Total (PSA)	Chemiluminescence on on Dxl800 Beckman Coulter as documented in HS/JP/W1 (CP:07)- 027 Test on Dxl800 Immunoassay Analyzer
Salicylate	EMIT on Beckman Coulter AU5800as
Salicylate	documented in (CP;07)-024 Test on Beckman Coulter AU 5800
Testosterone	Chemiluminescence on Dxl800 Beckman Coulter as documented in (CP:07)- 027 Test on Dxl800 Immunoassay Analyzer
Thyroid Stimulating Hormone (TSH)	Chemiluminescence on Dxl800 Beckman Coulter as documented in HS/JP/W1 (CP:07)- 027 Test on Dxl800 Immunoassay Analyzer
Thyroxine, Free (FT4)	Chemiluminescence on Dxl800 Beckman Coulter as documented in HS/JP/W1 (CP:07)- 027 Test on Dxl800 Immunoassay Analyzer
Triiodothyronine, Free (FT3)	Chemiluminescence on Dxl800 Beckman Coulter as documented in HS/JP/W1 (CP:07)- 027 Test on Dxl800 Immunoassay Analyzer
Unsaturated Iron Binding Capacity (UIBC)	Bathophenanthroline Nitroso-PSAP method on Beckman Coulter AU5800 as documented
Unsaturated Iron Binding Capacity (UIBC)	in HS/JP/W1 (CP;07)-024 Test on Beckman Coulter AU 5800

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Triglycerides	Enzymatic method as documented in HS/JP/WI (CP:07)- 024 Test on Beckman Coulter AU5800
Valproic acid	Homogeneous enzyme Immunoassay EMIT on Beckman Coulter AU5800 as documented
Valproic acid	in HS/JP/WI (CP:07)-024 Test on Beckman Coulter AU 5800
Vancomycin	EMIT on Beckman Coulter AU5800 as documented in HS/JP/WI
Vancomycin	(CP:07)-024 Test on Beckman Coulter AU 5800
Vitamin B12	Chemiluminescence on
Vitamin B12	Beckman Coulter as documented in
Vitamin B12	HS/JP/W1 (CP:07)- 027 Test on Immunoassay Analyzer
Leptospira IgM	Immuno chromatography as documented in HS/JP/W1(MB:10)- 009/Section 11
Treponema Pallidum Particle Agglutination (TPPA)	Floculation as documented in 4
Rapid Plasma Reagin (RPR)	Latex Agglutination as documented in HS/JP/W1(MB:10)-009/Section 3
Anti-Streptolysin O (ASOT)	Latex Agglutination as documented in HS/JP/W1(MB:10)-009/Section 6
HIV Supplementary Test	Particle Agglutination as documented in
HIV Supplementary Test	HS/JP/WI(MB:10)- 009\Section 1a
Dengue IgM	EIA. Personal Lab as documented in HS/JP/WI(MB:10)-007/Section 1
HBV Viral Load	1. Real Time Polymerase Chain Reaction (PCR). Abbott m2000 as documented in HS/JP/WI(MB:10)- 017/Section 1
HBV Viral Load	2. Real Time Polymerase Chain Reaction (PCR). Alinity as documented in HS/JP/WI(MB:10)- 017/Section 3A
HCV Viral Load	1. Real Time Polymerase Chain Reaction (PCR). Abbott m2000 as documented in HS/JP/WI(MB:10)- 017/Section 2

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HCV Viral Load	2. Real Time Polymerase Chain Reaction (PCR). Alinity as documented in HS/JP/WI(MB:10)- 017/Section 3A
HBsAg HBs Confirmatory Anti HCV	Chemiluminescent Microparticle Immuno Assay (CMIA), Architect i1000SR As documented in HTPG/JP/SER/AK-02
HIV Ag/Ab	None
Anti HIV-1 and/or HIV-2 Passive Particle	Particle Agglutination As documented in HTPG/JP/SER/AK-03
Agglutination (HIV % PA)	None
Rapid Plasma Reagin (RPR)	Flocculation As documented in HTPG/JP/SER/AK-04
Treponema Pallidum Particle Agglutination (TPPA)	Particle Agglutination As documented in HTPG/JP/SER/AK-05
Anti Streptolysin O Test (ASOT)	Latex Agglutination As documented in HTPG/JP/SER/AK-07
Leptospirosis Rapid Test	Lateral Flow Immunochromatography As documented in HTPG/JP/SER/AK-08
Anti Mycoplasma Pneumoniae Antibody	Particle Agglutination As documented in HTPG/JP/SER/AK-09
Alanine aminotransferase (ALT) (Serum)	IFCC (without P-5-P). Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SAS MEC@IIUM/PALM/INT-W10203
Albumin (Serum)	Bromocresol Green. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-W10203
Alkaline Phosphatase (ALP)	IFCC (pNPP , AMP). Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-W10203
AST (GOT) (Serum)	IFCC (without P-5-P). Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SAS MEC@IIUM/PALM/INT-W10203

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Chloride (Serum)	Indirect ISE. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
Cholesterol (Serum)	Enzymatic. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
Creatinine (Serum)	Method A (Kinetic Jaffe compensated). Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
D Bilirubin (Serum)	Diazotization. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
HDL (Serum)	Enzymatic. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
Potassium (Serum)	Indirect ISE. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
Sodium (Serum)	Indirect ISE. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
Total Bilirubin (Serum)	Diazotization. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
Total Protein (Serum)	Colorimetric Blue Violet (Biuret method)

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	Triglyceride (Serum)	Enzymatic. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
	Urea (Serum)	Kinetic urease. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
	Hepatitis B screening / Antigen and antibody detection: 4- Hepatitis Bs Antigen Qs Hepatitis Bs Antibody 3- Hepatitis B core Total ab	Chemiluminescence Immunoassay, Beckman Coulter / Method as documented in SASMEC@IIUM/PALM/MIC-W10203 SASMEC@IIUM/PALM/MIC-WP10
	4- Hepatitis B Confirmatory Ag	None
	Hepatitis C / Antibody detection	Chemiluminescence Immunoassay, Beckman Coulter / Method as documented in SASMEC@IIUM/PALM/MIC-W10203 SASMEC@IIUM/PALM/MIC-WP10
	Hepatitis C / Antibody detection	Chemiluminescence Immunoassay, Beckman Coulter / Method as documented in SASMEC@IIUM/PALM/MIC-W10203 SASMEC@IIUM/PALM/MIC-WP10
	Human Immunodeficiency Virus screening and confirmatory / Antigen/antibody detection	Fluorescence immunoassay, SD Biosensor / Method as documented in SASMEC@IIUM/PALM/MIC-W10401 SASMEC@IIUM/PALM/MIC-W10206
	Dengue NS? antigen, IgM & IgG Detection / Antigen Antibody detection	
	IgE	Fluorescence-linked Immunosorbent Assay (FLISA) and microarray technology as documented in LP912335523
	IgE	
Specimens For Acid Fast Bacilli (afb)	Direct smear	Manual method as documented in: a) PK-HPSF-PAT-MC-01 (Prosedur Kualiti Pengendalian Spesimen di Unit Mikrobiologi)
	Direct smear	b) PK-HPSF-PAT-MC-02 (Prosedur Kualiti Pengendalian Spesimen Mikrobiologi Ke Makmal Rujukan)

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Stool	Direct smear	c) MK-HPSF-PAT-MC-13 (Manual Kerja Pengendalian Spesimen Tuberculosis (TB))
	Direct smear	qd) MPT-HPSF-PAT-MC-5.5 (Manual Prosedur Teknikal: Staining Procedure ?Auramine O Stain)
	Culture & sensitivity	Manual method as documented in:
	Culture & sensitivity	a) MK-HPSF-PAT-MC-07 (Manual Kerja Pengendalian Spesimen Tinja)
	Culture & Sensitivity Testing	Manual Method As Documented in HSNI/PAT/MB/AK-11
	Microscopy ? Gram Stain	Gram staining method as documented in SASMEC@IIUM/ PALM/MIC-WI1313
Urine	Microscopy ? Gram Stain	Culture, identification and Sensitivity methods as documented in; SASMEC@IIUM/ PALM/MIC-WI0305 SASMEC@II UM/PALM/MIC-W10202 SASME C@IIUM/PALM/MIC-WI0314 SA SMEC@IIUM/PALM/MIC-WI0315 SASMEC@IIUM/PALM/MIC- W10205
	Culture & sensitivity	Manual method as documented in:
	Culture & sensitivity	a) MK-HPSF-PAT-MC-06 (Manual Kerja Pengendalian Spesimen Urin)
	Pregnancy test (UPT)	Rapid Immunochromatographic Assay as documented in GPQD/MIC/SOP-33

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UFEME	Test strip method using DiaLab Urine Analyser based on reagent strip method and microscopic method as documented in DS/LAB/LW 1/003
Culture & Sensitivity	Semi Quantitative Using Dip Strips As documented in HTPG/JP/MIC/AK-05, HTPG/JP/MIC/AK-24, HTPG/JP/MIC/AK-29 and HTPG/JP/MIC/AK-32
Creatinine	Picrate method as documented in LWICP11
Urine Protein	Architect ci8200 based on Benzethonium Chloride method as documented in LWI CP47
Microalbumin	Architect ci8200 based on the Turbidimetric / Immunoturbidimetric method as documented in LWI-CP36
Microscopy ? Gram Stain	Gram staining method as documented in SASMEC@IIUM/ PALM/MIC-WI1313
Culture, identification and Sensitivity	Culture, identification and Sensitivity methods as documented in; SASMEC@IIUM/ PALM/MIC-W10302 SASMEC@IIUM/ PALM/MIC-W10202 SASMEC@IIUM/ PALM/MIC-WI10314 SASMEC@IIUM/ PALM/MIC-WI0315 SASMEC@IIUM/ PALM/MIC-W10205

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