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LABORATORY LOCATION: (PERMANENT LABORATORY) 	Clinical Haematology Referral Laboratory, Hospital Ampang Jalan Mewah Utara, Pandan Mewah, 68000 Ampang, Selangor. , 68000, SELANGOR MALAYSIA
ACCREDITED SINCE :	19 MARCH 2025
FIELD(S) OF MEDICAL TESTING :	CYTOGENETICS 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, November 2021)

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CENTRAL LOCATION	Clinical Haematology Referral Laboratory, Hospital Ampang Jalan Mewah Utara, Pandan Mewah, 68000 Ampang, Selangor. , 68000, Selangor
FIELD(S) OF MEDICAL TESTING :	CYTOGENETICS, HAEMATOLOGY

SCOPE OF MEDICAL TESTING : CYTOGENETICS

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
(leukemia)	None	None
Bone Marrow	Bone Marrow	Manual Smearing & automated Staining (Bone
	Aspiration (BMA)	Marrow Aspiration) / Aerospray Autostainer Hema
	None	Pro 7152 as documented in
	None	HA/HAEM/MRKH/MOR/W1/BM-04
	None	/ BD FACSCanto II as documented in
	BCR::ABL1 fusion gene (Qualitative)	One-step multiplex PCR method, RNA / ASTEC GeneAtlas & Biometra-T ADVANCED Thermal
	gene	HA/HAEM/MKH/MOL/WI 15-1
	Hematoxylin & Eosin	Automated using Thermo Shandon Varistain
	None	None
	ii Hemoglobin	None
	Hematocrit IV.	None
	Karyotyping	G-banding technique / MetaSystem: IKAROS imaging
	Fluorescence In-situ	FISH method/ Thermobrite-StatSpin, Abbott Molecular
	Bone Marrow	Manual as documented in Bone Marrow Processing
	Examination	GPQD/HAE/SOP-13, MGG Stain
	Examination	GPQD/HAE/SOP-9 and Iron Stain GPQD/HAE/SOP-8
	Bone Marrow Aspiration (BMA)	Manual bone marrow slide preparation (smearing & staining) As documented in HSNI/PAT/HM/TPM/VER3/06
	Bone Marrow Aspiration (BMA)	HSNI/PAT/HM/AK/VER2/07
	Bone Marrow Aspiration Smear	Staining and Microscopic Observation
	Bone Marrow Aspiration Smear	HS/JP/WI(HM:08)-013-015

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	Bone marrow examination	Slide routine staining: (Automated) as documented in; SASMEC@IIUM/PALM/HAE-WI0101/W10105 Haematology Slide Stainer Cytocentrifuge Manual
	Bone marrow examination	Slide preparation and routine staining (Manual)
	Bone marrow examination	May Grunwald Giemsa staining as documented in SASMEC@IIUM/PALM/HAE-WP03 SASMEC@IIUM/PALM/HAE-WI0301
	Bone marrow examination	Slide preparation and routine staining (Manual)
	Bone marrow examination	Perl's staining as documented in SASMEC@IIUM/PALM/HAE-WP03 SASMEC@IIUM/PALM/HAE-WI0302
	Bone marrow examination	Slide preparation and special staining (Manual)
	Bone marrow examination	Periodic Acid Schiff (PAS) staining as documented in SASMEC@IIUM/PALM/HAE-WP03 SASMEC@IIUM/PALM/HAE-WI0304
	Bone marrow examination	Slide preparation and special staining (Manual)
	Bone marrow examination	Peroxidase (POX) staining as documented in SASMEC@IIUM/PALM/HAE-WP03 SASMEC@IIUM/PALM/HAE-WI0305
Cytogenetic	None	None
	None	None

SCOPE OF MEDICAL TESTING : HAEMATOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
(bmt)	None	None
(fish, Leukemia)	None	None
Aspirates	None	None
	None	Cyclers as documented in

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	None	None
	Quantitative RT- PCR	Two-steps real-time PCR quantitative analysis,
Cell Count And	None	None
Cord Blood	Platelet (PLT)	None
	CD34+ Enumeration	Single-platform ISHAGE Method / BD FACS Calibur
	and Viability test	Flowcytometer as documented in
	None	HA/HAEM/MRKH/BMT/WI-02
	Full Blood Count	sizing method as documented in Sysmex
	(HSC)	fluorescence detection method as
	Cell Viability	BD Via Probe? for exclusion of non-viable
	ABO Grouping	Diamed-ID micro typing system gel card
	ABO Grouping	method as documented in Diamed Diaclon
	ABO Grouping	ABO/Rh for newborns package insert
	Blood Culture	BACTEC blood culture system (BACTEC
Csf	None	None
	None	HA/HAEM/MKH/MOL/WI-18
	Minor fusion	RNA/ LC1.5, Roche as documented in
	gene	HA/HAEM/MKH/MOL/WI-04-2
	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

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	Cryptotoccal Antigen	Lateral Flow as documented in HS/JP/W1(MB:10)-004/Section 28
Diagnostic	None	None
	None	None
Flow Cytometry	None	None
Haemostasis &	None	None
Hematopathology	None	None
Hemoglobinopathy	None	None
Molecular	None	None
	None	None
Morphology	None	None
	Full Blood Count (FBC)	None
	Red Blood Cell	Cell Count / Sysmex XN3000 (Sysmex XN-20)
	ii Hemoglobin	Integrated with Automated Slide Maker SP10) as documented in HA/HAEM/MRKH/MOR/WI-15
Peripheral Blood	Immunophenotyping	Flow cytometry Immunophenotyping Classification of
	None	Leukemia, Lymphoma and Peripheral Blood for PNH
	None	None
	Quantitative RT- PCR	One-step real-time PCR quantitative analysis,
	Major fusion (WBC)	RNA / Rotor-Gene Q, Qiagen as documented in
	Full Blood Count	Mindray BC-3600 analyzer as documented in
	Hemopoietic Stem Cell	Sysmex XN-1000 based on counting and
Plasma	Prothrombin	BD FACSCanto II three-colour flowcytometry
	Time (PT)	Viscosity-based detection / STA Compact a
	Activated Partial Thromboplastin	Analyzer as documented in
	Time (APTT)	None
	iii Fibrinogen (Clauss Technique)	None
	Factor Assays Iv (Based on APTT)	None
	Factor Assays Vv (Bas ed on PT)	b Turbidimetric immunoassay / ACL TOP CTS 500
		as documented in
		None
		None
		None

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Collagen Binding	ELISA method / TECAN Sunrise Microplate Reader
Assay (CBA)	as documented in
None	HA/HAEM/MRKH/RCH/W118
Factor Inhibitors	Coagulation method / ACL TOP CTS 500 as
(Bethesda Unit)	documented in
None	HA/HAEM/MRKH/RCH/WI-09
Lupus Anticoagulant	Viscosity-based detection / STA Compact Analyzer
(Screening test)	as documented in
None	HA/HAEM/MRKH/RCH/WI-02
Anti-Xa (Low	Viscosity-based detection / STA Compact Analyzer
Molecular Weight	as documented in
Heparin)	HA/HAEM/MRKH/RCH/WI-02
Lupus Anticoagulant	Viscosity-based detection / STA Compact Analyser
(Confirmation Test)	as documented in
None	HA/HAEM/MRKH/RCH/WI-11
Von-Williebrand	Turbidimetric immunoassay / ACL TOP CTS 500 as
(VWF) Assays	documented in
None	HA/HAEM/MRKH/RCH/WI-22
Glucose	Automation / Cobas 6000 analyzer series module C501 as documented in MKAI/SP/BKM/WI-01
Activated Partial	Clotting method by Sysmex CA104 as
Thromboplastin Time	documented in Haematology Procedure Manual
(APTT)	Chapter YP151
Prothrombin Time (PT)	Clotting method by Sysmex CA104 as
None	documented in Haematology Procedure Manual
None	Chapter YP152
INR	Photo-optical clot reaction/CS2500 (2) as documented in PT/INR SOP (GPQD/HAE/SOP-33)
APTT	Photo-optical clot reaction/CS2500 (2) as documented in APTT SOP (GPQD/HAE/SOP-37)
Fibrinogen	Photo-optical clot reaction/CS2500 (2) as documented
Fibrinogen	in Fibrinogen SOP (GPQD/HAE/SOP-35)

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Lupus Anticoagulant	Photo-optical clot reaction/CS2500 (2) as documented
Lupus Anticoagulant	in SOP (GPQD/HAE/SOP-1)
Antithrombin III	Photo-optical clot reaction/CS2500 (2) as documented
Antithrombin III	in Antithrombin II] GPQD/HAE/SOP-2
Protein C	Photo-optical clot reaction/CS2500 (2) as documented
Protein C	in Protein C GPQD/HAE/SOP-4
Protein S	Photo-optical clot reaction/CS2500 (2) as documented
Protein S	in Protein S GPQD/HAE/SOP-3
Factor V Leiden	Photo-optical clot reaction/CS2500 (2) as documented
Mutation	in Factor V Leiden GPQD/HAE/SOP-6
HIV-1 RNA Quantitative	Real-Time PCR/Alinity M System (1 as
HIV-1 RNA Quantitative	documented in SOP (GPQD/MOL/SOP-19
HBV DNA Quantitative	Real-Time PCR/Alinity M System (1 as
HBV DNA Quantitative	documented in SOP (GPQD/MOL/SOP-19
HCV RNA Quantitative	Real-Time PCR/Alinity M System (1 as
HCV RNA Quantitative	documented in SOP (GPQD/MOL/SOP-19
HCV RNA	Real-Time PCR/Alinity M System (1 as
HCV RNA	documented in SOP (GPQD/MOL/SOP-19
Iron	Photometry hexokinase/Cobas c311 as
Iron	documented electronically in Roche COBAS
Iron	LINK/COBAS c311
Glucose	Photometry hexokinase/Cobas c311 as
Glucose	documented electronically in Roche COBAS
Glucose	LINK/COBAS c311
INR	Clotting scattered light detection method/Sysmex

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APTT	Ca-660 as documented in GPQD/HAE-SSOP-
APTT	43/CA600 Operating Procedure
Blood Group	GPQD/HAE/SOP-47 and GPQD/HAE/SOP-48
DAT	Direct agglutination/Diamed Gel-card as
DAT	documented in GPQD/HAE/SOP-45 and
DAT	GPQD/HAE/SOP-48
Antibody Screen	Agglutination with Panel cells/ Diamed Gel-card as
Antibody Screen	documented in GPQD/HAE/SOP-53 and
Antibody Screen	GPQD/HAE/SOP-48
Cross-match	Major cross match/ Diamed Gel-card as documented
Cross-match	in GPQD/HAE/SOP-46 and GPQD/HAE/SOP-48
Glucose	Colourimetric hexokinase/Cobas c501 as =
Glucose	documented electronically in Roche COBAS
Glucose	LINK/COBAS 6000
Lactate	Colourimetry Enzymatic/Cobas c501 as
Lactate	documented electronically in Roche COBAS
Lactate	LINK/COBAS 6000
INR	Electromagnetic sensor/CA104 as documented in
INR	ST art4 SOP (GPQD/HAE/SOP-42)
APTT	Electromagnetic sensor/CA 104 as documented in
APTT	ST art4 SOP (GPQD/HAE/SOP-42)
Glucose	Spectrophotometry/Cobas c311 as documented
Glucose	electronically in Roche C311
Procalcitonin	Immunoelectrochemiluminescence/Cobas e144 as
Procalcitonin	documented electronically in Roche COBAS
INR	Clotting method-turbo densitometric photo-optical
INR	measuring principle/Sysmex CA 104 as
INR	documented in (GPQD/HAE/SOP-42)
G6PD Screen	nan

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G6PD Screen	Fluorescence Immunoassay as documented in D
D-Dimer	Dimer SOP (GPQD/HAE/SOP-36)
Blood Culture	9240) fluorescent method as documented in
Blood Culture	SL/LAB/S3.1 and BD BACTEC 9240 Manual
HIV Genotypic Resistance -"	Polymerase Chain Reaction (PCR) and
Protease and Reverse	Population-based Genome Sequencing /
Transcriptase	Eppendorf Mastercycler X50s thermal cyclers
Transcriptase	as documented in
Transcriptase	IMR/IDRC/VIRO/SOP/HIV/10
HIV Genotypic Resistance -"	Polymerase Chain Reaction (PCR) and
Integrase	Population-based Genome Sequencing /
Integrase	Eppendorf Mastercycler X50s thermal cyclers
Integrase	as documented in
Integrase	IMR/IDRC/VIRO/SOP/HIV/11
Homocysteine (Total)	Documented in IMR/SDC/BC/SOP-4 / Agilent 1260 HPLC
Homocysteine (Total)	with Fluorescence Detector
Carnitine (Total & Free)	Enzymatic end-point as documented in
Carnitine (Total & Free)	IMR/SDC/BC/SOP-3/ Spectrophotometer
Glycosaminoglycans	Complex with Dimethylmethylene Blue (DMB)
(GAG) Quantitation	as documented in IMR/SDC/BC/SOP-5/ Spectrophotometer
GAG Separation	High Resolution Electrophoresis as
GAG Separation	documented in IMR/SDC/BC/SOP-6/ Multiphor
GAG Separation	II Electrophoresis System
Organic Acids	Derivatisation with BSTFA as documented in
Organic Acids	IMR/SDC/BC/SOP-9/GCMS Agilent 7890B

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Orotic Acids	Reverse-phase Chromatography as
Orotic Acids	Documented in IMR/SDC/BC/SOP-10/ Agilent 1200 HPLC
Orotic Acids	with Diode Array Detector
Coagulation:	Clotting (optical) Method/Sysmex CS1600 As documented in
Prothrombin time (PT)	HSNI/PAT/HM/TPM/VER3/2019/02 HSNI/PAT/HM/AK/VER3/2019/04
Activated Partial	HSNI/PAT/HM/TPM/VER3/2019/03
Thromboplastin Time (APTT)	HSNI/PAT/HM/AK/VER3/2019/04
Ammonia	GLDH ? UV on Beckman Coulter AU5800 as documented in HS/JP/W1 (CP;07)-024 Test on Beckman Coulter AU5800
Lactate	Enzymatic LOD-POD on Beckman Coulter AU5800 as documented in HS/JP/W1 (CP;07)- 024 Test on Beckman Coulter AU 5800
Mycophenolic Acid	EMIT on Viva E (Siemens) as documented in HS/JP/W1 (CP;07)- 014 Test on VIVA E (Siemens)
Prothrombin Time (PT)	Clotting Activity HS/JP/W1(HM:08)- 007
Activated Partial Thromboplastin Time (APTT)	Clotting Activity HS/JP/W1(HM:08)- 007
Fibrinogen Estimations (FIB)	Clotting Activity HS/JP/W1(HM:08)- 007
International Normalised Ratio (INR)	Clotting Activity HS/JP/W1(HM:08)- 007
D-Dimer Quantitative	Change in turbidity of a microparticle suspension measured by photometry
Coagulation Mixing Test: APTT/PT	Clotting Activity HS/JP/W1(HM:08)- 017
Ammonia	Glutamate Dehydrogenase as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Lactate (Lactic Acid)	Lactic Acid to Pyruvate (L to P) as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
PT/ INR	Mechanical clot detection

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	PT/ INR	Analyser: Stago Compact/ Max All methods and specifications as documented in HTPG/JP/HEM/AK-04
	APTT	Mechanical clot detection
	APTT	Analyser: Stago Compact/ Max All methods and specifications as documented in HTPG/JP/HEM/AK-05
	Fibrinogen	Clauss method Analyser: Stago Compact/ Max All methods and specifications as documented in HTPG/JP/HEM/AK-06
	D-Dimer	Turbidimetry Analyser: Stago Compact/ Max All methods and specifications as documented in HTPG/JP/HEM/AK-07
	Glucose (Plasma)	Hexokinase Method. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT- WI0203
Pleural Fluid	None	None
	Leukemia 30 fusion genes translocation	Multiplex PCR method, RNA / AriaDX (Agilent Technologies) as documented in;
	None	HA/HAEM/MKH/MOL/WI-18
	JAK2 V617F mutation	Amplification Refractory Mutation System (ARMS) method, DNA/ ASTEC GeneAtlas &
	None	Biometra-T ADVANCED Thermal Cyclers as
	None	documented in
	None	HA/HAEM/MKH/MOL/WI-02-2
	None	07-1
	Calreticulin gene	High Resolution Melting (HRM) analysis, DNA /
	mutation	LC480, Roche as documented in
	None	HA/HAEM/MKH/MOL/WI-02-2
	None	HA/HAEM/MKH/MOL/WI 13
	NPM1 gene mutation	High Resolution Melting (HRM) analysis, DNA/
	None	LC480 II, Roche as documented in
	None	HA/HAEM/MKH/MOL/WI-02-2
	None	17
	FLT3-ITD	PCR, ASTEC GeneAtlas & Biometra-T
	None	ADVANCED Thermal Cyclers as documented in

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	None	HA/HAEM/MKH/MOL/WI-02-2
	None	HA/HAEM/MKH/MOL/W116
	None	07-1
	Quantitative RT- PCR	Two-steps real-time PCR quantitative analysis,
	PML::RARa fusion	RNA/LC1.5, Roche as documented in
	gene (subtype ber2 and ber3)	HA/HAEM/MKH/MOL/WI-04-2
	Quantitative RT- PCR	11
	Quantitative RT- PCR	Two-steps real-time PCR quantitative analysis,
	RUNX1::RUNX1T1	RNA/ LC1.5, Roche as documented in
	fusion gene	HA/HAEM/MKH/MOL/WI-04-2
	None	11
	Quantitative RT- PCR	Two-steps real-time PCR quantitative analysis,
	CBFB::MYH11A-"fusion	RNA/ LC1.5, Roche as documented in
	gene	HA/HAEM/MKH/MOL/WI-04-2
	None	11
Stem Cell (pbsc)	Red Blood Cell (RBC)	HA/HAEM/MRKH/BMT/WI-03
		None
Thrombosis	None	None
Transplantation	None	None
Trephine	(H&E) Staining	Gemini Autostainer as documented in
	Histochemical Staining (Special Stain)	None
	Reticulin	None
		Manual using Bio-Optica Silver Impregnation
	None	Retic Stain Kit as documented in
	None	HA/HAEM/MRKH/HEMATOPAT HIWI-14
	Grocott-™s	Manual using Thermo Scientific Modified
	Methenamine	Grocott-™s Methenamine Silver Stain (Chromic
	Silver (GMS)	Acid) commercial kit as documented in
	None	HA/HAEM/MRKH/HEMATOPAT HIWI-15
	iii Ziehl - Neelsen	Manual using Clin-Tech Ziehl - Neelsen complete
	None	commercial kit as documented in
	None	HA/HAEM/MRKH/HEMATOPAT HIWI-16
	PAS Iv	Manual using Bio-Optica Periodic Acid Schiff
	None	Stain commercial kit as documented in

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Whole Blood	None	HA/HAEM/MRKH/HEMATOPAT HIWI-17
	Congo Red	Manual using Bio-Optica Congo Red Stain
	None	commercial kit as documented in
	None	HA/HAEM/MRKH/HEMATOPAT HIWI-18
	Immunohistochemistry	Automated using Leica Bond III Autostaining
	(IHC) Staining	System as documented in
	None	HA/HAEM/MRKH/HEMATOPAT HIWI-11
	In-situ Hybridisation	Automated using Leica Bond III Autostaining
	(ISH) Staining	System as documented in
	None	HA/HAEM/MRKH/HEMATOPAT HIWI-11
	iii Hematocrit	None
	iv. Mean Cell Volume Mean Vv	b Coulter Principle, CN-Free Hemoglobinometry, Flowcytometry / UniCel DxH 800 Coulter as documented in
	Corpuscular	None
	Haemoglobin	None
	Mean Cell vi	None
	Haemoglobin	None
	Concentration	None
	vii Platelet	None
	viii Red Cell	None
	Distribution	None
	Width (CV)	None
	Full Blood Picture	Fully automated preparation / Sysmex XN3000
	(FBP)	(Sysmex XN-20 Integrated with Automated Slide Maker SP10) as documented in
	Haemoglobin	Capillary Electrophoresis (CE) / SEBIA Flex2
	Analysis	Cap Piercing Analyser as documented in
	None	HA/HAEM/MRKH/RC/WI-23
	None	Gel Electrophoresis (acid) / Hydrasis Gel
	None	Electrophoresis Analyser as documented in
	None	Gel Electrophoresis (alkaline) / Hydrasis Gel
	None	Electrophoresis Analyser as documented in
	None	HA/HAEM/MRKH/RC/WI-25

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Blood Count (FBC)	Electrical resistance for counting WBC, RBC and
White Cell	PLT and cyanide free method for hemoglobin /
None	as documented in
None	HA/HAEM/MRKH/CYT/WI-11v1
Karyotyping	G-banding technique / MetaSystem: IKAROS imaging as documented in
None	HA/HAEM/MRKH/CYT/WI-05-1v2
None	HA/HAEM/MRKH/CYT/WI-11v1
None	HA/HAEM/MRKH/CYT/WI-12v2
Hybridization (FISH)	/MetaSystem ISIS imaging as documented in
None	HA/HAEM/MRKH/CYT/WI-13v1
None	HA/HAEM/MRKH/CYT/WI-17v2
None	HA/HAEM/MRKH/CYT/WI-18v2
None	HA/HAEM/MRKH/CYT/WI-19 v1
None	HA/HAEM/MRKH/CYT/WI-20v1
Fluorescence In-situ	FISH method /Thermobrite-StatSpin,Abbott Molecular
Hybridization (FISH)	/MetaSystem ISIS imaging as documented in
None	HA/HAEM/MRKH/CYT/WI-13v1
None	HA/HAEM/MRKH/CYT/WI-17v2
None	HA/HAEM/MRKH/CYT/WI-18v2
None	HA/HAEM/MRKH/CYT/WI-19 v1
None	HA/HAEM/MRKH/CYT/WI-20v1
ABO Blood Grouping / Rh (D)	Tube Method as documented in MTM-IH-06
Malarial Antigen	ELISA Method as documented in MTM-IH-03
Malarial Antigen	ROBONIK Washwell plate Elisa Washer
Malarial Antigen	ROBONIK Readwell touch Elisa Plate
Malarial Antigen	Analyser
Blood Film Malaria	Microscopy -" Thick and Thin Blood Film as
Parasite (BFMP)	documented in MTM-IH 07
Parasite (BFMP)	Giemsa stain
Full Blood Count	Cell count using Sysmex XN 550 and XN 1000
(FBC)	analyzers as documented in Haematology
None	Procedure Manual Chapter and YP037
ABO and RhD Blood	Manual tube method as documented in Blood
Grouping	Bank Procedure Manual Chapter BP020

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Cross-matching	Column Agglutination Technology method as
None	documented in Blood Bank Procedure Manual
None	Chapter BP026
ABO Blood Grouping /	Test Tube
Rhesus	nan
Full Blood Count (FBC) White Blood Cell	Mythic-,¢ 22 AL
Lymphocyte	nan
Monocytes	nan
Neutrophils	nan
Eosinophils	nan
Basophils	nan
Red Blood Cell	nan
Hemoglobin	nan
Hematocrit	nan
Mean Cell	nan
Volume	nan
Mean	nan
Corpuscular	nan
Hemoglobin	nan
Concentration	nan
Red Cell	nan
Distribution Width	nan
Platelets	nan
Mean Platelet	nan
Volume	nan
Malaria Antigen	Reader and Washer (ELISA Method)
Malaria Antigen	GBLISA-R Microplate Reader
Malaria Antigen	GBLISA-W Microplate Washer
Malaria Slide	Thick & Thin Blood Film by Microscopy Method
(Outsource)	nan
Glycated Haemoglobin	Clover A1c-,¢ Self
Glycated Haemoglobin	On-Call Multipro Analyzer
Malaria Antigen	Malaria ELISA Enzyme Linked Immunosorbent
Screening Test (ELISA)	Assay / ELISA Semi Automated Instrument -"
Screening Test (ELISA)	Washer, Reader and Incubator as documented
Screening Test (ELISA)	in Q@LAB_SOP_04
Blood film for Malaria	Blood Film Malaria Parasite (Thick and Thin
Parasite	Film) / Giemsa Staining of Thick and Thin Blood
Parasite	Film as documented in Q LAB_SOP_05

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Full Blood Count (FBC)	Fluorescence Flow Cytometry, Hydro Dynamic Focusing & SLS Hemoglobin determination / Sysmex XN1000 as documented in HSNi/PAT/HM/TPM/VER3/01
Full Blood Count (FBC)	HSNi/PAT/HM/AK/VER3/01
D-Dimer	Antigen-antibody interaction/Cobas H232 As documented in
D-Dimer	HSNi/PAT/HM/TPM/VER2/04
D-Dimer	HSNi/PAT/HM/AK/VER2/05
Peripheral Blood Film (PBF)	Manual peripheral blood slide preparation (smearing & staining) As documented in HSNi/PAT/HM/TPM/VER3/05
Peripheral Blood Film (PBF)	HSNi/PAT/HM/AK/VER2/06
ABO Grouping	Manual method (tube method) As documented in HSNi/PAT/AK/TD/31
Blood Gases	Flow through electrode sensors as documented in HS/JP/WI (CP ;07)-020 pH and Blood Gases on GEM PREMIER 3500
Cyclosporine	EMIT on Viva E (Siemens) as documented in HS/JP/WI (CP:07)- 014 Test on VIVA E (Siemens)
Everolimus	Immunoturbidimetry on Beckman Coulter AU5800 as documented in HS/JP/WI (CP;07)- 024 Test on Beckman Coulter AU 5800
HbA1c	HLPC on Variant II Turbo (Biorad) as documented in HS/JP/WI (CP;07)-011 HbA1c on Variant II Turbo (Biorad)
Tacrolimus	EMIT on Viva E (Siemens) as documented in HS/JP/WI (CP:07)- 014 Test on VIVA E (Siemens)
Full Blood Count	Flowcytometry Method Hydrodynamic Focusing method SLS-Hemoglobin Method.
Full Blood Count	HS/JP/WI(HM:08)-004
Erythrocyte Sedimentation Rates (ESR)	Westergren Method HS/JP/W1(HM:08)- 005
Full Blood Picture (FBP)	Flowcytometry and Microscopic Examination HS/JP/W1(HM:08)- 011

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Reticulocytes	Flowcytometry method
Reticulocytes	HS/JP/W1(HM:08)- 004
Hb Analysis	1. High Performance Liquid Chromatography HS/JP/W1(HM:08)-21 2. Capillary Electrophoresis
ABO and RhD Blood Grouping	Manual tube method as documented in Blood Bank Operation Procedure Manual BP020.
Cross-matching	Column Agglutination Technology method as documented in Blood Bank Operation Procedure Manual BP026.
Direct Antiglobulin Test	Column Agglutination Technology method as documented in Blood Bank Procedure Manual, BP085
Full blood Count (FBC)	Cell count using Sysmex XS 500i analyzer as documented in Haematology Procedure Manual YP036.
Full Blood Count	Method: Combination of
(5-part hematology analyser)	Impedence, SLS Hb, Flowcytometry, and calculation
(5-part hematology analyser)	Analyser: Sysmex XN-1000
(5-part hematology analyser)	All methods and specifications as documented in HTPG/JP/HEM/AK-01
(5-part hematology analyser)	Manual Differential count as documented in
(5-part hematology analyser)	HTPG/JP/HEM/AK-11
Reticulocyte count	Flowcytometry method Analyser: Sysmex XN-1000 All methods and specifications as documented in HTPG/JP/HEM/AK-01
Full Blood Picture	Manual blood smear and staining method using Leishman stain All methods and specifications as documented in HTPG/JP/HEM/AK-10 & AK-12
WBC?s Count	Aperture Impedance. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
WBC?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205
RBC?s Count	Aperture Impedance. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in

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RBC?s Count	SASMEC@IIUM/PALM/INT-W10204
Hemoglobin?s Count	Photometric Impedance. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented
Hemoglobin?s Count	in SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/INT-W10205
Hematocrit?s Count	Photometric Impedance. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented
Hematocrit?s Count	in SASMEC@IIUM/PALM/INT-W10204
Mean Corpuscular Volume?s Count	Aperture Impedance. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
Mean Corpuscular Volume?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/INT-W10205
Mean Corpuscular Hemoglobin?s Count	Aperture Impedance. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/INT-W10205
Mean Corpuscular Hemoglobin Concentration?s Count	Aperture Impedance. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/INT-W10205
RDW?s Count	Aperture Impedance. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
RDW?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/INT-W10205
Platelet?s Count	Aperture Impedance. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
Platelet?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/INT-W10205
Neutrophils?s Count	Aperture Impedance. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
Neutrophils?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/INT-W10205

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Lymphocytes?s Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
Lymphocytes?s Count	SASMEC@IIUM/PALM/INT-W10204
Monocytes?s Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
Monocytes?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205
Eosinophil?s Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
Eosinophil?s Count	SASMEC@IIUM/PALM/INT-W10204
Basophils?s Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
Basophils?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205
NE# Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
NE# Count	SASMEC@IIUM/PALM/INT-W10204
LY# Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
LY# Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205
MO# Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
MO# Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205
EO# Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
EO# Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205
BA# Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
BA# Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205

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Nucleated Red Blood Cell?s Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
Nucleated Red Blood Cell?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/INT-W10205
NRBC# Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
NRBC# Count	SASMEC@IIUM/PALM/INT-W10204
MDW?s Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
MDW?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/INT-W10205
Retic?s Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
Retic?s Count	SASMEC@IIUM/PALM/INT-W10204
Glucose-6-phosphate dehydrogenase deficiency (G6PD) screening	Spot fluorescence test method as documented in; SASMEC@IIUM/PALM/HAE-WP01 SASMEC@IIUM/PALM/HAE-WI10102
Full blood picture with clinical interpretation	Slide preparation and routine staining: (Automated) as documented in; SASMEC@IIUM/PALM/HAE-WI0101/W10105 Haematology Slide Stainer Cyto centrifuge User's Manual
Haemoglobin analysis (HbA, HbA2, HbF, Hb variant)	Quantitation of HbA, HbA2, HbF, Hb variant: High Performance Liquid Chromatography (HPLC) method as documented in SASMEC@IIUM/PALM/HAE-WP02 SASMEC@IIUM/PALM/HAE-WI10203/ BioRad Variant II Haemoglobin Testing System User?s Manual
Haemoglobin analysis (HbA, HbA2, HbF, Hb variant)	Capillary?s electrophoresis (CE) method as documented in SASMEC@IIUM/PALM/HAE-WP02 SASMEC@IIUM/PALM/HAE-WI0202/ Sebia Capillarys 2 Flex Piercing User?s Manual

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Haemoglobin analysis (HbA, HbA2, HbF, Hb variant)	Hb H inclusion bodies
Haemoglobin analysis (HbA, HbA2, HbF, Hb variant)	Specimen preparation and staining (manual) as documented in SASMEC@IIUM/PALM/HAE-
Haemoglobin analysis (HbA, HbA2, HbF, Hb variant)	Blood cell morphology; Slide preparation and routine staining: (Automated) as documented in SASMEC@IIUM/PALM/HAE-WI10101/ Haematology Slide Stainer Cytocentrifuge User's Manual

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