


Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 1 of 35

LABORATORY LOCATION: (PERMANENT LABORATORY) 	Northern Medical Laboratory Sdn. Bhd. No. 9 Jalan Verevea 5 Verevea , 14110 Simpang Ampat, Pulau Pinang. , 14110, PULAU PINANG MALAYSIA
ACCREDITED SINCE :	19 MARCH 2025
FIELD(S) OF MEDICAL TESTING :	CHEMICAL PATHOLOGY HAEMATOLOGY 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)

NO: SAMM 895

Page: 2 of 35

CENTRAL LOCATION	Northern Medical Laboratory Sdn. Bhd. No. 9 Jalan Verevea 5 Verevea , 14110 Simpang Ampat, Pulau Pinang. , 14110, Pulau Pinang
FIELD(S) OF MEDICAL TESTING :	CHEMICAL PATHOLOGY, HAEMATOLOGY MEDICAL MICROBIOLOGY

SCOPE OF MEDICAL TESTING : CHEMICAL PATHOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Urine Specimen	Urine Biochemistry -"	Immunochromatographic Principle (Dip stick) /
	Glucose & Albumin	Manual method as Documented in
	Urine Pregnancy Test	Rapid Chromatographic Immunoassay / Visual
	Urine Pregnancy Test	Observation of Strip Test as Documented in
	Urine Pregnancy Test	NML_SOP_11
	Urine Drugs - Morphine and Cannabinoids	Immunochromatographic / Visual Observation of strip test as Documented in NUL_SOP_09
	and Cannabinoids	(MORPHINE) and NML_SOP-10
	and Cannabinoids	(CANNABINOIDS)

SCOPE OF MEDICAL TESTING : HAEMATOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Whole Blood / Serum	Blood Grouping and	Tube Method -" Forward and Reverse
	Rhesus - Forward and	Grouping / Tube Method as Documented in
	Reverse Grouping	NML_SOP_01
	Blood Grouping and	Tube Method -" Forward and Reverse Grouping
	Rhesus -" Forward and	Tube Method as Documented in
	Reverse Grouping	None

NO: SAMM 895

Page: 3 of 35

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Serum / Plasma	RPR Testing for Syphilis	RPR test method (Qualitative Detection) /
	RPR Testing for Syphilis	Carbon Antigen for RPR Testing on RPR card
	RPR Testing for Syphilis	and Rotator by manual method as Documented
	RPR Testing for Syphilis	in NML_SOP_06
	Treponema Pallidum	Heamagglutination Assay - on Microtitre Plate /
	Hemagglutination Assay	Detection of antibodies to Treponema Pallidum
	(TPHA) Test	using heamagglutination technique & Visual
	(TPHA) Test	Observation as Documented in NUL_SOP_07
	HIV 1 and 2 Antibody	Enzyme Linked Immunosorbent Assay / ELISA
	Screening Test	Semi Automated Instrument - Washer, Reader
	Screening Test	and Incubator as Documented in NUL_SOP_03
	Hepatitis B Surface	Enzyme Linked Immunosorbent Assay / ELISA
	Antigen Screening Test	Semi Automated Instrument - Washer, Reader
	Antigen Screening Test	and Incubator as Documented in NUL_SOP_02
	RPR	Lorne RPR Carbon Antigen Based on
	None	qualitative and semi-quantitative as
	None	documented in (MTM
	TPHA	Vedalab TPHA kits based Passive
	None	Haemagglutination Method as Documented
	None	in (MTM 09B)
	HBs Antigen	Wantai ELISA as Documented in (MTM 03)
	HIV	Wantai ELISA as Documented in (MTM 02)
	C3	Immunoturbidimetric / Abbott Alinity C Analyzer
	C3	Document Quality HSBAS/PAT/INT/TPM/29

Schedule

Issue date: 19 March 2025

Valid Until: -



NO: SAMM 895

Page: 4 of 35

C4	Immunoturbidimetric / Abbott Alinity C Analyzer
C4	Document Quality HSBAS/PAT/INT/TPM/29
Transferin	IMMUNOTURBIDIMETRIC / Abbott Alinity C
Transferin	Analyzer
Transferin	Document Quality HSBAS/PAT/INT/TPM/29
FT3	MMUNOCHEMILUMINOMETRIC / Abbott Alinity Analyzer
FT3	Document Quality HSBAS/PAT/INT/TPM/29
LH	MMUNOCHEMILUMINOMETRIC / Abbott Alinity Analyzer
LH	Document Quality HSBAS/PAT/INT/TPM/29
FSH	IMMUNOCHEMILUMINOMETRIC / Abbott Alinity Analyzer
FSH	Document Quality HSBAS/PAT/INT/TPM/29
Prolactin	IMMUNOCHEMILUMINOMETRIC / Abbott Alinity Analyzer
Prolactin	Document Quality HSBAS/PAT/INT/TPM/29
Testosterone	IMMUNOCHEMILUMINOMETRIC / Abbott Alinity Analyzer
Testosterone	Document Quality HSBAS/PAT/INT/TPM/29
Folate	IMMUNOCHEMILUMINOMETRIC / Abbott Alinity Analyzer
Folate	Document Quality HSBAS/PAT/INT/TPM/29
BHCG	MMUNOCHEMILUMINOMETRIC / Abbott Alinity Analyzer
BHCG	Document Quality HSBAS/PAT/INT/TPM/29
CA 19-9	IMMUNOCHEMILUMINOMETRIC / Abbott Alinity Analyzer
CA 19-9	Document Quality HSBAS/PAT/INT/TPM/29
CA125	IMMUNOCHEMILUMINOMETRIC / Abbott Alinity Analyzer
CA125	Document Quality HSBAS/PAT/INT/TPM/29
CEA	IMMUNOCHEMILUMINOMETRIC / Abbott Alinity Analyzer
CEA	Document Quality HSBAS/PAT/INT/TPM/29
CKMB	MMUNOCHEMILUMINOMETRIC / Abbott Alinity Analyzer

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 5 of 35

CKMB	Document Quality HSBAS/PAT/INT/TPM/29
Procalcitonin	MMUNOCHEMILUMINOMETRIC / Abbott Alinity Analyzer
Procalcitonin	Document Quality HSBAS/PAT/INT/TPM/29
Trop i	MMUNOCHEMILUMINOMETRIC / Abbott Alinity Analyzer
Trop i	Document Quality HSBAS/PAT/INT/TPM/29
Glucose	Hexokinase method by Siemens Dimension Xpand
Glucose	Plus Chemistry Analyzer as documented in
Glucose	MKAKB/BP/BCM/SOP-22 Determination of Routine
Glucose	Chemistry Tests on Siemens Dimension Xpand
Albumin	Method: Bromcresol Green (BCG)
Albumin	Machine: Beckman Coulter AU480
Albumin	Procedures are as documented in
Albumin	MV-SOP-CP-01
Alkaline Phosphatase (ALP)	Method: PNPP, AMP Buffer
Alkaline Phosphatase (ALP)	Machine: Beckman Coulter AU480
Alkaline Phosphatase (ALP)	Procedures are as documented in
Alkaline Phosphatase (ALP)	MV-SOP-CP-01
Alanine aminotransferase (ALT)	Method: UV without P5P
Alanine aminotransferase (ALT)	Machine: Beckman Coulter AU480
Alanine aminotransferase (ALT)	Procedures are as documented in
Alanine aminotransferase (ALT)	MV-SOP-CP-01
Calcium	Method: Arsenazo III
Calcium	Machine: Beckman Coulter AU480
Calcium	Procedures are as documented in
Calcium	MV-SOP-CP-01
Aspartate amino-transferase (AST)	Method: UV without P5P
(AST)	Machine: Beckman Coulter AU480
(AST)	Procedures are as documented in
(AST)	MV-SOP-CP-01
Bilirubin Total	Method: DPD

Schedule

Issue date: 19 March 2025

Valid Until: -



NO: SAMM 895

Page: 6 of 35

Bilirubin Total	Machine: Beckman Coulter AU480
Bilirubin Total	Procedures are as documented in
Bilirubin Total	MV-SOP-CP-01
Chloride	Method: ISE indirect
Chloride	Machine: Beckman Coulter AU480
Chloride	Procedures are as documented in
Chloride	MV-SOP-CP-01
Cholesterol-Total	Method: Cholesterol oxidase, esterase, peroxidase
Cholesterol-Total	Machine: Beckman Coulter AU480
Cholesterol-Total	Procedures are as documented in
Cholesterol-Total	MV-SOP-CP-01
Cholesterol-HDL	Method: Direct measure, immunoinhibition
Cholesterol-HDL	Machine: Beckman Coulter AU480
Cholesterol-HDL	Procedures are as documented in
Cholesterol-HDL	MV-SOP-CP-01
Creatinine	Method: Alkaline picrate method, IFCC-IDMS Standardized (Method A)
Creatinine	Machine: Beckman Coulter AU480
Creatinine	Procedures are as documented in
Creatinine	MV-SOP-CP-01
G-Glutamyltransferase	Method: G-Glutamyl-carboxyOnitroanilide-IFCC
G-Glutamyltransferase	Ref.Proc.Calibrated
G-Glutamyltransferase	Machine: Beckman Coulter AU480
G-Glutamyltransferase	Procedures are as documented in
G-Glutamyltransferase	MV-SOP-CP-01
Glucose	Method: Hexokinase
Glucose	Machine: Beckman Coulter AU480
Glucose	Procedures are as documented in
Glucose	MV-SOP-CP-01
Iron	Method: TPTZ-no deproteinization
Iron	Machine: Beckman Coulter AU480

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 7 of 35

Iron	Procedures are as documented in
Iron	MV-SOP-CP-01
Potassium	Method: ISE indirect
Potassium	Machine: Beckman Coulter AU480
Potassium	Procedures are as documented in
Potassium	MV-SOP-CP-01
Protein (Total)	Method: Biuret method
Protein (Total)	Machine: Beckman Coulter AU480
Protein (Total)	Procedures are as documented in
Protein (Total)	MV-SOP-CP-01
Phosphorus	Method: Phosphomolybdate
Phosphorus	Machine: Beckman Coulter AU480
Phosphorus	Procedures are as documented in
Phosphorus	MV-SOP-CP-01
Sodium	Method: ISE indirect
Sodium	Machine: Beckman Coulter AU480
Sodium	Procedures are as documented in
Sodium	MV-SOP-CP-01
Triglyceride	Method: Enzymatic, end point
Triglyceride	Machine: Beckman Coulter AU480
Triglyceride	Procedures are as documented in
Triglyceride	MV-SOP-CP-01
UIBC	Method: Nitroso-PSAP
UIBC	Machine: Beckman Coulter AU480
UIBC	Procedures are as documented in
UIBC	MV-SOP-CP-01
Urea	Method: Urease, UV
Urea	Machine: Beckman Coulter AU480
Urea	Procedures are as documented in
Urea	MV-SOP-CP-01
Uric Acid	Method: Uricase, colorimetric
Uric Acid	Machine: Beckman Coulter AU480
Uric Acid	Procedures are as documented in
Uric Acid	MV-SOP-CP-01

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 8 of 35

Syphilis Screening (RPR)	Rapid Plasma Reagin as documented in
Syphilis Screening (RPR)	MV-SOP-MIC-01
Hepatitis B Surface Antigen	Paramagnetic particle Chemiluminescent
Hepatitis B Surface Antigen	immunoassay as documented in
Hepatitis B Surface Antigen	MV-SOP-MIC-02
Syphilis Serology (TPHA)	Passive Particle Agglutination Assay as
Syphilis Serology (TPHA)	documented in MV-SOP-MIC-04
Screening HIV 1+2 Ab	Sandwich ELISA as documented in
Screening HIV 1+2 Ab	MV-SOP-MIC-05
Nucleic Acid Amplification Testing	Procleix Ultrio Elite Assay detection
(NAT) for:	of for HBV, HCV, HIV and
(NAT) for:	Discriminatory Assays on Procleix
e Hepatitis B Virus (HBV) DNA	Panther System as documented in
e Hepatitis C Virus (HCV) RNA e Human Immunodeficiency Virus (HIV) RNA	SYN/WI-01 Test method Procleix Ultrio Elite Assay for Nucleic Acid Amplification Testing (NAT).
Anti-HIV 1&2	ELISA method / Incubator 37°C, Microplate
Screening	washer and Reader as documented in
Screening	JH/WI/02-Rev 4
HBsAG Screening	ELISA method / Incubator 37°C, Microplate
HBsAG Screening	washer and Reader as documented in
HBsAG Screening	JH/WI/03-Rev 4
RPR	Carbon Antigen (by LORNE LABORATORIES
RPR	LTD.) method / Rotator as documented in
RPR	JH/WI/05-Rev 4
TPHA	Treponema Pallidum Haemagglutination (by
TPHA	Plasmatec) method as documented in
TPHA	JH/WI/06-Rev 4
RPR	Manual method -" agglutination method with
RPR	RPR Carbon Antigen as documented in
RPR	MTM-IH-04
TPHA	Indirect Heamagglutination test as
TPHA	documented in MTM-IH-05

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 9 of 35

HBsAg	HBsAg ELISA method -" Double Antibody
HBsAg	Sandwich Principle as documented in
HBsAg	MTM-IH-01
HBsAg	ROBONIK Washwell plate Elisa Washer
HBsAg	ROBONIK Readwell touch Elisa Plate
HBsAg	Analyser
Anti-HIV 1 & 2 Screening	HIV 1+2 Antibody ELISA -" Double Antigen
Anti-HIV 1 & 2 Screening	Sandwich Principle as documented in
Anti-HIV 1 & 2 Screening	MTM-IH-02
Anti-HIV 1 & 2 Screening	ROBONIK Washwell plate Elisa Washer
Anti-HIV 1 & 2 Screening	ROBONIK Readwell touch Elisa Plate
Anti-HIV 1 & 2 Screening	Analyser
Hepatitis C Virus	Indirect Immunoenzymatic assay test method on
Antibody	Access 2 Immunoassay analyzer (Beckman
None	Coulter) NEX/WI-S17
Hepatitis B Surface	Enzyme Immunoassay (-oesandwich-•) on Access
Antigen (HBsAg)	2 Immunoassay analyzer (Beckman Coulter) for
None	NEX/WI-S19
Human	Sequential two -" step immunoenzymatic
Immunodeficiency	(-oesandwich-•) on Access 2 Immunoassay
Virus Antigen /	analyzer (Beckman Coulter) for NEX/WI-S20
Antibody Combo (HIV	None
Ag/Ab Combo)	None
Antibody Screening	Column Agglutination Technology method as
None	documented in Blood Bank Procedure Manual
None	Chapter BP005
Alanine Transaminase	Modified Wroblewski and LaDue method, IFCC
(ALT)	Reference using Dimension Clinical Chemistry
None	System as documented in Biochemistry
None	Procedure Manual Chapter CP010

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 10 of 35

Albumin	Bromocresol Purple (BCP) method using
None	Dimension Clinical Chemistry System as
None	documented in Biochemistry Procedure Manual
None	Chapter CP015
Alkaline Phosphatase	Enzymatic Reaction with AMP Buffer method,
(ALP)	IFCC Reference using Dimension Clinical
None	Chemistry System as documented in
None	Biochemistry Procedure Manual Chapter CP020
Amylase	Hydrolysis of CNPG3 method using Dimension
None	Clinical Chemistry System as documented in
None	Biochemistry Procedure Manual Chapter CP025
Aspartate	Modified IFCC method using Dimension Clinical
Aminotransferase	Chemistry System as documented in
(AST)	Biochemistry Procedure Manual Chapter CP035
Bilirubin (Total)	Diazotized Sulfanilic Acid method using
None	Dimension Clinical Chemistry System as
None	documented in Biochemistry Procedure Manual
None	Chapter CP135
Calcium	Cresolphthalein complexone reaction method
None	using Dimension Clinical Chemistry System as
None	documented in Biochemistry Procedure Manual
None	Chapter CP040
Chloride	Indirect Measurements from Ion Selective
None	Electrode method using Dimension Clinical
None	Chemistry System as documented in
None	Biochemistry Procedure Manual Chapter CP075
Cholesterol (Total)	Enzymatic Reaction method using Dimension

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 11 of 35

None	Clinical Chemistry System as documented in
None	Biochemistry Procedure Manual Chapter CP050
Creatine Kinase MB	Modified IFCC CK Primary Reference method
(CKMB)	using Dimension Clinical Chemistry System as
None	documented in Biochemistry Procedure Manual
None	Chapter
Creatinine Kinase (CK)	IFCC Primary Reference method using
None	Dimension Clinical Chemistry System as
None	documented in Biochemistry Procedure Manual
None	Chapter CP055
Creatinine	Modified Kinetic Jaffe Reaction method using
None	Dimension Clinical Chemistry System as
None	documented in Biochemistry Procedure Manual
None	Chapter
Gamma-Glutamyl	IFCC method using Dimension Clinical
Transferase (GGT)	Chemistry System as documented in
None	Biochemistry Procedure Manual Chapter CP085
Glucose	Hexokinase method using Dimension Clinical
None	Chemistry System as documented in
None	Biochemistry Procedure Manual Chapter CP090
HDL Cholesterol	Elimination and Measurement by Trinder Action
None	method using Dimension Clinical Chemistry
None	System as documented in Biochemistry
None	Procedure Manual Chapter CP037
Lactate	IFCC Primary Reference method using
Dehydrogenase	Dimension Clinical Chemistry System as
None	documented in Biochemistry Procedure Manual

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 12 of 35

None	Chapter CP100
Phosphate (inorganic)	Modified Phosphomolybdate method using
None	Dimension Clinical Chemistry System as
None	documented in Biochemistry Procedure Manual
None	Chapter CP125
Potassium	Indirect Measurements from Ion Selective
None	Electrode method using Dimension Clinical
None	Chemistry System as documented in
None	Biochemistry Procedure Manual Chapter CP075
Sodium	Indirect Measurements from Ion Selective
None	Electrode method using Dimension Clinical
None	Chemistry System as documented in
None	Biochemistry Procedure Manual Chapter CP075
Total Protein	Biuret Reaction method using Dimension
None	Clinical Chemistry System as documented in
None	Biochemistry Procedure Manual Chapter CP140
Triglycerides	Enzymatic Reaction method using Dimension
None	Clinical Chemistry System as documented in
None	Biochemistry Procedure Manual Chapter
Urea Nitrogen (BUN)	Urease Kinetic method using Dimension Clinical
None	Chemistry System as documented in
None	Biochemistry Procedure Manual Chapter CP150
Uric Acid	Uricase Peroxidase method using Dimension
None	Clinical Chemistry System as documented in
None	Biochemistry Procedure Manual Chapter CP155
RPR	RPR Carbon Antigen Based on qualitative and
RPR	semi-quantitative

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 13 of 35

TPHA	TPHA kits based Passive Hemagglutination
TPHA	Method
HBs Antigen	Fully Automated Immunoassay, COBAS E411
HBs Antigen	GBLISA-R Microplate Reader
HBs Antigen	GBLISA-W Microplate Washer
HIV	Fully Automated Immunoassay, COBAS E411
HIV	GBLISA-R Microplate Reader
HIV	GBLISA-W Microplate Washer
RPR Testing for Syphilis	RPR test method (Qualitative Detection) /
RPR Testing for Syphilis	Carbon Antigen for RPR Testing on RPR card
RPR Testing for Syphilis	and Rotator by manual method as documented
RPR Testing for Syphilis	in QLAB_SOP_06
Treponema Pallidum	Hemagglutination Assay -" on Microtitre Plate /
Hemagglutination Assay	Detection of antibodies to Treponema Pallidum
(TPHA) Test	using hemagglutination technique & Visual
(TPHA) Test	Observation as documented in Q LAB_SOP_07
HIV 1 and 2 Antibody	Enzyme Linked Immunosorbent Assay / ELISA
Screening Test	Semi Automated Instrument -" Washer, Reader
Screening Test	and Incubator as documented in Q
Screening Test	LAB_SOP_03
Hepatitis B Surface	Enzyme Linked Immunosorbent Assay / ELISA
Antigen Screening Test	Semi Automated Instrument -" Washer, Reader
Antigen Screening Test	and Incubator as documented in Q
Antigen Screening Test	LAB_SOP_02
HIV Ag / Ab	Immunoelectrochemiluminescence/Cobas e801 (6)
HIV Ag / Ab	as documented electronically in Roche Cobas
HIV Ag / Ab	LINK/Cobas e801
Reagin Antibodies	Immunoturbidimetric/Cobas e801 (6) as
Reagin Antibodies	documented electronically in Roche Cobas
Reagin Antibodies	LINK/Cobas C501

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 14 of 35

Hepatitis C antibody	Immunochemiluminescence/Cobas e801 (6)
Hepatitis C antibody	as documented electronically in Roche Cobas
Hepatitis C antibody	LINK/Cobas c501
Treponema pallidum	Immune Electrochemiluminescence/Cobas e801 (6)
antibodies	as documented in electronically in Roche Cobas
antibodies	LINK/Cobas e801/ Manual Passive Particle
antibodies	Agglutination assay as documented in TPPA
antibodies	(GPQD/SER/SOP-12)
EBV IgG VCA	Chemiluminescence Immunoassay/Diasorin XL (2)
Antibody	as documented in Operator Manual
EBV IgM VCA	Chemiluminescence Immunoassay/Diasorin XL (2)
Antibody	as documented in Operator Manual
EBV IgA EA Antibody	ELISA/Euroimmune (1) as documented in EBV EA
EBV IgA EA Antibody	IgA (GPQD/SER/SOP-10)
EBV IgA VCA	Chemiluminescence/SNIBE Maglumi 1000 (2) as
Antibody	documented in EBV VCA IgA (GPQD/SER/SOP-8)
Hepatitis B virus	Immunochemiluminescence/Cobas e801 (6)
eAntigen and /	as documented electronically in Roche Cobas LINK/
eAntibody	Cobas e801
Herpes simplex 1&2	Immunochemiluminescence/Cobas e801 (6)
IgG	as documented electronically in Roche Cobas LINK/
IgG	Cobas e801
Herpes simplex 1&2	Chemiluminescence Immunoassay/Diasorin XL (2)
IgM	as documented in Operator Manual
Cytomegalovirus IgM	Immunochemiluminescence/Cobas e801 (6)
antibody	as documented electronically in Roche Cobas LINK/
antibody	Cobas e801
Anti-Human T-	Chemiluminescence Immunoassay/Diasorin XL (2)

Schedule

Issue date: 19 March 2025

Valid Until: -



NO: SAMM 895

Page: 15 of 35

lymphotropic virus types	as documented in Operator Manual
1&11	nan
(HTLV-1 and HTLV-2)	nan
Mycoplasma antibody	Passive Particle agglutination/Manual assay as
Mycoplasma antibody	documented in MYC AB (GPQD/SER/SOP-16)
Cytomegalovirus IgG	Immuno-electrochemiluminescence/Cobas e801 (6)
antibody	as documented in electronically in Roche Cobas
antibody	LINK/Cobas e801
Ig E (Total) Specific IgE	Chemiluminescence, HITACHI CLA-1 (1) as
(35 specific Allergens)	documented in MAP Allergy (GPQD/SER/SOP-17)
Cyclic Citrullinated	Immuno-electrochemiluminescence Cobas e801(6) as
Peptide	documented in electronically in Roche Cobas LINK/
(CCP Antibodies)	Cobas e801
Chikungunya IgM	Rapid Chromatographic Immunoassay/Manual as
Chikungunya IgM	documented in CKM Ab (GPQD/SER/SOP-7)
Anti HBc IgM	Immuno-electrochemiluminescence/Cobas e801 (6) as
Anti HBc IgM	documented in electronically in Roche Cobas LINK/
Anti HBc IgM	Cobas e801
Anti HBc Total	Immuno-electrochemiluminescence/Cobas e801 (6) as
Anti HBc Total	documented in electronically in Roche Cobas LINK/
Anti HBc Total	Cobas e801
Anti HBs	Immuno-electrochemiluminescence/Cobas e801 (6) as
Anti HBs	documented in electronically in Roche Cobas LINK/
Anti HBs	Cobas e801
HbsAg	Immuno-electrochemiluminescence/Cobas e801 (6) as
HbsAg	documented in electronically in Roche Cobas
HbsAg	LINK/Cobas e801
Rubella IgG	Immuno-electrochemiluminescence/Cobas e801(6) as
Rubella IgG	documented in electronically in Roche Cobas LINK/
Rubella IgG	Cobas e801

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 16 of 35

Rubella IgM	mmunoelectrochemiluminescence/e801 (6) as
Rubella IgM	documented in electronically in Roche Cobas LINK/
Rubella IgM	Cobas e801
Toxoplasma IgG	mmunoelectrochemiluminescence/Cobas e801 (6)
Toxoplasma IgG	as documented in electronically in Roche Cobas
Toxoplasma IgG	LINK/ Cobas e801
Toxoplasma IgM	mmunoelectrochemiluminescence/Cobas e801 (6) as
Toxoplasma IgM	documented in electronically in Roche Cobas LINK/
Toxoplasma IgM	Cobas e801
Anti - HAV IgG	mmunoelectrochemiluminescence/Cobas e801 (6) as
Anti - HAV IgG	documented in electronically in Roche Cobas LINK/
Anti - HAV IgG	Cobas e801
Anti HAV IgM	mmunoelectrochemiluminescence/Cobas e801 (6) as
Anti HAV IgM	documented in electronically in Roche Cobas LINK/
Anti HAV IgM	Cobas e801
Anti HCV	mmunoelectrochemiluminescence as documented in
Anti HCV	electronically in Roche Cobas LINK/Cobas e801 (6)
HIV Ag/Ab Combo	Chemiluminescent microparticle immunoassay
HIV Ag/Ab Combo	(CMIA) method/ Abbott Architect (1) as documented in
HIV Ag/Ab Combo	Architect Manual / HIV
Helicobacter Pylori IgG	Chemiluminescent microparticle immunoassay
Helicobacter Pylori IgG	(CMIA)/Diasorin Liaison (2) method as documented
Helicobacter Pylori IgG	electronically in kit insert.
AFP	Immunochemiluminescence/Cobas e411 as
AFP	documented electronically in Roche Cobas LINK/
AFP	Cobas e411
CEA	Immunochemiluminescence/Cobas e411 as
CEA	documented electronically in Roche Cobas LINK/
CEA	Cobas e411
PSA - Total	Immunochemiluminescence/Cobas e411 as

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 17 of 35

PSA - Total	documented electronically in Roche COBAS
PSA - Total	LINK/COBAS e411
Free T3	Immunochemiluminometric assay/Cobas e411 as
Free T3	documented electronically in Roche COBAS
Free T3	LINK/COBAS e411
Free T4	Immunochemiluminometric assay/Cobas e144 as
Free T4	documented electronically in Roche COBAS
Free T4	LINK/e411
TSH	Immunochemiluminometric assay/Cobas e411 as
TSH	documented electronically in Roche COBAS
TSH	LINK/COBAS e411
Total HCG	Immunochemiluminometric assay/Cobas e411 as
Total HCG	documented electronically in Roche COBAS
Total HCG	LINK/COBAS e411
Alanine	Colourimetry - Tris Buffer (IFCC w/o pyridoxal phosphate)/Cobas c311 as documented
Aminotransferase	electronically in Roche COBAS LINK/COBAS c311
Albumin	Colourimetry - Tris Buffer (IFCC w/o pyridoxal phosphate)/Cobas c311 as documented
Albumin	electronically in Roche COBAS LINK/COBAS c311
Alkaline Phosphatase-	Colourimetry - AMP Buffer - Rate (IFCC)/Cobas
AMP	c311 as documented electronically in Roche
AMP	COBAS LINK/COBAS c311
Aspartate	Colourimetry - Tris Buffer (IFCC w/o pyridoxal phosphate)/Cobas c311 as documented
Aminotransferase	electronically in Roche COBAS LINK/COBAS c311
Bilirubin-Total	Colourimetry -" Diazonium Salt as documented
Bilirubin-Total	electronically in Roche COBAS LINK/COBAS c311

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 18 of 35

Direct Bilirubin	Colourimetry - Diazo as documented electronically
Direct Bilirubin	in Roche COBAS LINK/COBAS c311
Gamma G	Colourimetric - g - glutamyl - 3 - carboxy -"
Gamma G	nitro/Cobas c311 as documented electronically in
Gamma G	Roche COBAS LINK/COBAS c311
Total Protein	Colourimetry -" Biuret/Cobas c311 as documented
Total Protein	electronically in Roche COBAS LINK/COBAS c311
Cholesterol	Colourimetry - Cholesterol Oxidase /
Cholesterol	Peroxidase/Cobas c311 as documented
Cholesterol	electronically in Roche COBAS LINK/COBAS c311
HDL Cholesterol	Colourimetry - Non sep DxSo4/PEG mod
HDL Cholesterol	enzymes/Cobas c311 as electronically in Roche
HDL Cholesterol	COBAS LINK/COBAS 6000/c311
Triglycerides	Colourimetry -" Lipase / Glycerol kinase / GPO-
Triglycerides	PAP/Cobas c311 as documented electronically in
Triglycerides	Roche COBAS LINK/COBAS c311
Creatinine	Colourimetry - Alkaline Picrate -" Jaffe/Cobas c311
Creatinine	as documented electronically in Roche COBAS
Creatinine	LINK/COBAS c311
Calcium	Colourimetry - BAPTA/Cobas c311 as documented
Calcium	electronically in Roche COBAS LINK/COBAS c311
Uric Acid	Colourimetry -" Enzymatic (Uricase)/Cobas c311 as
Uric Acid	documented electronically in Roche COBAS
Uric Acid	LINK/COBAS c311
Sodium	Indirect ISE/Cobas c311 as documented
Sodium	electronically in Roche COBAS LINK/COBAS c311
Sodium	as documented in Advia 2400 Manual / Sodium

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 19 of 35

Potassium	Indirect ISE/Cobas c311 as documented
Potassium	electronically in Roche COBAS LINK/COBAS c311
Chloride	Indirect ISE/Cobas c311 as documented
Chloride	electronically in Roche COBAS LINK/COBAS c311
CKMB	Immunological UV liquid/Cobas c311 documented
CKMB	electronically in Roche COBAS LINK/COBAS c311
Creatine Kinase	Colourimetry - NAC Activator/Imidozole
Creatine Kinase	Buffer/Cobas c311 as electronically in Roche
Creatine Kinase	COBAS LINK/COBAS c311
Lactate	Colourimetric -" Rate to P/Cobas c311 as
Lactate	documented electronically in Roche COBAS
Lactate	LINK/COBAS c311
Dehydrogenase	Colourimetry -p-Nitrophenyl (IFCC)/Cobas c311 as
Dehydrogenase	documented electronically in Roche COBAS
Dehydrogenase	LINK/COBAS c311
Amylase	Immunoturbidimetric/Cobas c311 as documented
Amylase	electronically in Roche COBAS LINK/COBAS c311
Rheumatoid Factor	Colourimetry - FerroZine without
Rheumatoid Factor	deproteinization/Conas c311 as documented
Rheumatoid Factor	electronically in Roche COBAS LINK/COBAS c311
Anti HBs	Immuno-electrochemiluminescence/Cobas e601 as
Anti HBs	documented electronically in Roche COBAS
Anti HBs	LINK/COBAS e601
HbsAg	Immuno-electrochemiluminescence/Cobas e601 as
HbsAg	documented electronically in Roche COBAS
HbsAg	LINK/COBAS e601
HIV Ag/Ab Combo	Immuno-electrochemiluminescence/Cobas e601 as
(cHIV)	documented electronically in Roche COBAS
(cHIV)	LINK/COBAS e601

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 20 of 35

Anti HCV	Immunochemiluminometric assay/Cobas e601 as
Anti HCV	documented electronically in Roche COBAS
Anti HCV	LINK/COBAS e601
Anti -" HAV Total	Immunochemiluminometric assay/Cobas e601 as
Anti -" HAV Total	documented electronically in Roche COBAS
Anti -" HAV Total	LINK/COBAS e601
Infectious	nan
Mononucleosis	Particle agglutination/manual as documented in
Mononucleosis	GPQD/HAE/SOP-24
Dengue Ab IgG/IgM	nan
Dengue Ab IgG/IgM	Florence Immunoassay/F200 as documented in
Dengue Ab IgG/IgM	GPQD/HAE/SOP-30
Dengue NS1	nan
Dengue NS1	Florence Immunoassay/F200 as documented in
Dengue NS1	GPQD/HAE/SOP-29
Reagin Antibodies	nan
Reagin Antibodies	Immunoturbidimetric as documented electronically in
Reagin Antibodies	Roche COBAS LINK/COBAS 6000
Reagin Antibodies	Flocculation RPR Carbon antigen as documented in
Reagin Antibodies	GPQD/MIC/SOP-15
Anti HBs	Immunochemiluminometric assay/Cobas e601 as
Anti HBs	documented in electronically in Roche COBAS
Anti HBs	LINK/COBAS 6000
HBsAg	Immunochemiluminometric assay/Cobas e601 as
HBsAg	documented in electronically in Roche COBAS
HBsAg	LINK/COBAS 6000
HIV Ag/Ab	Immunochemiluminometric assay/Cobas e601 as
HIV Ag/Ab	documented in electronically in Roche COBAS
HIV Ag/Ab	LINK/COBAS 6000
Anti -" HAV Total	Immunochemiluminometric assay/Cobas e601 as
Anti -" HAV Total	documented in electronically in Roche COBAS
Anti -" HAV Total	LINK/COBAS 6000

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 21 of 35

Anti HCV	Immunochemiluminometric assay/Cobas e601 as
Anti HCV	documented in electronically in Roche COBAS
Anti HCV	LINK/COBAS 6000
Dengue Ab IgG/IgM	Fluorescence Immunoassay/F200 as documented in Dengue IgM/IgG SOP (GPQD/HAE/SOP-30)
Dengue NS1	Fluorescence Immunoassay/F200 as documented
Dengue NS1	in Dengue NS1 SOP (GPQD/HAE/SOP-29)
Total Immunoglobulin E (Ig E)	Fluoro Enzyme Immunoassay as documented in
Total Immunoglobulin E (Ig E)	IMR/AIRC/AL/SOP/1
Specific Immunoglobulin E (Ig E)	Fluoro Enzyme Immunoassay as documented in
Specific Immunoglobulin E (Ig E)	IMR/AIRC/AL/SOP/2
HIV Ab & Ag	Electrochemiluminescence Immunoassay
HIV Ab & Ag	(ECLIA) / Roche Cobas e411 as documented
HIV Ab & Ag	in IMR/IDRC/VIRO/SOP/HIV/01
HIV Ab	Particle Agglutination Assay (PA) as
HIV Ab	documented in IMR/IDRC/VIRO/SOP/HIV/02
HIV Ab (Confirmatory)	Western Blot (WB) / Platform Shaker as
HIV Ab (Confirmatory)	documented in IMR/IDRC/VIRO/SOP/HIV/03
HIV Ab (Confirmatory)	and IMR/IDRC/VIRO/SOP/HIV/04
HIV-1 RNA PCR	Real-time Polymerase Chain Reaction (PCR)/
HIV-1 RNA PCR	Abbott m2000 Real Time System as
HIV-1 RNA PCR	documented in IMR/IDRC/VIRO/SOP/HIV/07
HIV Viral Load	Real-time Polymerase Chain Reaction (PCR)/
HIV Viral Load	Cobas 4800 System & Abbott m2000 Real
HIV Viral Load	Time System as documented in
HIV Viral Load	IMR/IDRC/VIRO/SOP/HIV/09
HAV IgM	Electrochemiluminescence Immunoassay
HAV IgM	(ECLIA) / Roche Cobas e 411 as documented in
HAV IgM	IMR/IDRC/VIRO/SOP/HEP/01

Schedule

Issue date: 19 March 2025

Valid Until: -



NO: SAMM 895

Page: 22 of 35

HBsAg	Electrochemiluminescence Immunoassay
HBsAg	(ECLIA) / Roche Cobas e 411 as documented
HBsAg	in IMR/IDRC/VIRO/SOP/HEP/02
HBsAg Confirmatory	Electrochemiluminescence Immunoassay
HBsAg Confirmatory	(ECLIA) / Roche Cobas e 411 as documented in
HBsAg Confirmatory	IMR/IDRC/VIRO/SOP/HEP/03
HBsAb	Electrochemiluminescence Immunoassay
HBsAb	(ECLIA) / Roche Cobas e 411 as documented
HBsAb	in IMR/IDRC/VIRO/SOP/HEP/04
HBeAg	Electrochemiluminescence Immunoassay
HBeAg	(ECLIA) / Roche Cobas e 411 as documented in
HBeAg	IMR/IDRC/VIRO/SOP/HEP/05
HBeAb	Electrochemiluminescence Immunoassay
HBeAb	(ECLIA) / Roche Cobas e 411 as documented in
HBeAb	IMR/IDRC/VIRO/SOP/HEP/06
HBcAb (Total)	Electrochemiluminescence Immunoassay
HBcAb (Total)	(ECLIA) / Roche Cobas e 411 as documented in
HBcAb (Total)	IMR/IDRC/VIRO/SOP/HEP/07
HBcAb (IgM)	Electrochemiluminescence Immunoassay
HBcAb (IgM)	(ECLIA) / Roche Cobas e 411 as documented
HBcAb (IgM)	in IMR/IDRC/VIRO/SOP/HEP/08
HCV Ab	Enzyme Immunoassay (EIA) / ELISA washer,
HCV Ab	ELISA reader, 37°C incubator as documented in
HCV Ab	IMR/IDRC/VIRO/SOP/HEP/09
HCV RNA Qualitative and	Real-time Polymerase Chain Reaction (PCR)/
Quantitative	Cobas 4800 / Abbot m2000rt Real Time
Quantitative	System as documented in
Quantitative	IMR/IDRC/VIRO/SOP/HEP/10
HCV Genotyping	Polymerase Chain Reaction (PCR) / Cobas
HCV Genotyping	4800 System as documented in
HCV Genotyping	IMR/IDRC/VIRO/SOP/HEP/11

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NO: SAMM 895

Page: 23 of 35

	Gamma- Glutamyl Transferase Assay	Architect ci8200 based on L- Gamma_ glutamyl- 3carboxy-4-nitroanilide Substrate enzymatic method as documented in LWI CP012
	Glucose	Architect ci8200Glucose based on Hexokinase / G6-PDH method as documented in LWI-CP13
	HDL Cholesterol Assay	Architect ci8200 based on Direct Clearance method as documented in LWI-CP014
	Potassium	Architect ci8200 Potassium based on Ion-Selective Electrode, Diluted (indirect) method as documented in LWI- CP16
	Total protein	Architect ci8200 Total protein based on Biuret method as documented in LWICP17
	Phosphorus	Architect ci8200 based Phosphomolybdate on method as documented in LWI-CP037
	Rheumatoid Factor	Architect ci8200 based on Turbidimetry method as documented in LWI-CP39
	Unsaturated Iron- Binding Capacity (UIBC)	Architect ci8200 based on Ferene method as documented in LWI- CP40
Virology	(TPHA) Test	None
	None	None
	Hepatitis B screening	Hepatitis B surface Antigen Test as
	None	None
	None	None
	(TPHA) Test	None
	PCR	nan
	Blood Culture	None
Whole Blood	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 NML_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 NUL_SOP_05
	ABO Blood	Forsure, Test Tube as Documented in (MTM 01)

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 24 of 35

Grouping/Rhesus	None
Malaria Antigen	Qualisa ELISA as Documented in
None	(MTM 07A)
Malaria Slide	Thick & Thin Blood Film by
None	Microscopy
None	Method as Documented in (MTM
ABO & Rh Blood	07B)
Grouping	Microtitre Plate and Tube Method
None	as documented
None	in PL/WI/HAE-03; Index 1.0 and
None	2.0
Malaria Parasite	Rh Confirmation Test as
None	documented in
None	PLIWI/HAE-03; Index 4.0
None	ELISA method as documented in
None	PL/WI/MIC-04;
None	Index 5.0; Qualisa Malaria
None	Thick and thin film using
None	microscopy method as
1. Full Blood Count	documented in PL/WI/MIC-04;
None	4.0
None	Haemoglobin: Colorimetric
None	method
None	Cell differentiation and counting:
None	Impedance
None	method, laser scatter and SF
None	Cube cell
None	analysis technology / Automated
None	Mindray BC
None	6200 Haematology Analyzer as
None	Documented
None	in HSJ/PAT/HEM/W101 FULL
None	BLOOD COUNT
None	& BLOOD FILM PREPARATION
None	USING
2. Slide Review	MINDRAY BC6200 AND
None	MINDRAY SC120
None	Automated blood film preparation
None	and staining
None	/ Automated Mindray SC120 as
None	Documented
None	in HSJ/PAT/HEM/WI05 SLIDE
None	REVIEW
3. Full Blood Picture	Automated blood film preparation
None	and staining /
None	Automated Mindray SC120 as
None	Documented in
4. Erythrocyte	HSJ/PAT/HEM/W104 FULL
	BLOOD PICTURE
	Westergreen method /
	Automated Jokoh Smart

Schedule

Issue date: 19 March 2025

Valid Until: -



NO: SAMM 895

Page: 25 of 35

sedimentation rate (ESR)	Rate as Documented in HSJ/PAT/HEM/WI07
None	ESR USING JOKOH SMART RATE
HbA1c	High Performance Liquid Chromatography / BIORAD Variant II Turbo
HbA1c	Document Quality HSBAS/PAT/INT/TPM/23
Full Blood Picture	Manual test as documented in
Full Blood Count and	Sysmex XN1000 as documented in
Uric Acid	Method: Immunoturbidimetric
Uric Acid	Machine: Beckman Coulter AU480
Uric Acid	Procedures are as documented in
Uric Acid	MV-SOP-CP-01
ABO Blood Grouping	Tube Method as documented in
ABO Blood Grouping	MV-SOP-HEM-02
Full Blood Count	Machine: Beckman Coulter DxH 500
Full Blood Count	Procedure as documented in
Full Blood Count	MV-SOP-HEM-01
ELISA For Malaria Specific	Enzyme Linked Immunosorbent Assay
Antigen	(ELISA) as documented in
Antigen	MV-SOP-MIC-03
ABO & Rhesus Blood	Tube Method as documented in MXL/WI-04
Grouping	Blood Grouping
Malaria Antigen	ELISA method / ELISA reader (Chromate) as
None	documented in MXL/WI-05 Malaria Parasite
ABO & Rh D Blood	Manual tube method as documented in Blood
Grouping	Bank Procedure Manual chapter BP020
Cross-matching	Column Agglutination (gel card) method as
Cross-matching	documented in Blood Bank Procedure Manual
Cross-matching	chapter BP026
Direct Antiglobulin Test	Column agglutination (gel card) method as
Direct Antiglobulin Test	documented in Blood Bank procedure Manual
Direct Antiglobulin Test	chapter BP085
Antibody screening /	Column agglutination (gel card) method as

Schedule

Issue date: 19 March 2025

Valid Until: -



NO: SAMM 895

Page: 26 of 35

Indirect Antiglobulin Test	documented in Blood Bank Procedure manual
Indirect Antiglobulin Test	chapter
Full Blood Count (FBC)	Fluorescent flow cytometry, hydrodynamic
Full Blood Count (FBC)	focusing and Cyanide-free SLS method using
Full Blood Count (FBC)	Sysmex XN 1000 analyzer as
Full Blood Count (FBC)	documented in Haematology Procedure
Full Blood Count (FBC)	Manual, YP037
ABO & Rh Blood	Test Tube Method / Centrifuge as documented
Grouping	in
Grouping	MLS/LAB/WI.3.0; Index 1.0
Grouping	MLS/LAB/WI.3.0; Index 2.0
Grouping	MLS/LAB/WI.3.0; Index 3.0
Malaria Parasite	ELISA Method / Microplate washer, Incubator
Malaria Parasite	37°C and Reader as documented in
Malaria Parasite	MLS/LAB/WI.2.0; Index 1.0
Malaria Parasite	Blood Smear Thick and Thin Method as
Malaria Parasite	documented in MLS/LAB/WI.2.0; Index 2.0
ABO & Rhesus Blood	Test Tube method / Centrifuge as documented
Grouping	in JH/WI/01-Rev 6
Malaria Parasite	ELISA -" Qualisa MalariaTM Method /
Malaria Parasite	Incubator 37°C, Microplate washer and Reader
Malaria Parasite	as documented in JH/WI/04-Rev 4
Malaria Parasite	Blood smear thick and thin method as
Malaria Parasite	documented in JH/WI/04-Rev 4; clause 4.2
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

Schedule

Issue date: 19 March 2025

Valid Until: -



NO: SAMM 895

Page: 27 of 35

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
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

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 28 of 35

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
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)

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 29 of 35

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- _g 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
Cyclosporin	Immuno-electrochemiluminescence/Cobas e801
Cyclosporin	(6) as documented in electronically in Cobas e801
G6PD screen	Fluorescence Method/Manual as documented in G6PD
G6PD screen	SOP (GPQD/HAE/SOP-55)
Cytomegalovirus PCR	as documented in GPQD/MOL/SOP-14
Mumps IgG & IgM	Chemiluminescence Immunoassay/Diasorin XL (2)
Mumps IgG & IgM	as documented in Operator Manual
Measles IgG & IgM	Chemiluminescence Immunoassay/Diasorin XL (2)
Measles IgG & IgM	as documented in Operator Manual
Varicella IgG & IgM	Chemiluminescence Immunoassay/Diasorin XL (2)
Varicella IgG & IgM	as documented in Operator Manual
HBA1C	DCCT/NGSP/ Roche Cobas (c501, c311) as
HBA1C	documented electronically in Roche COBAS
HBA1C	LINK/Roche COBAS
Urine Pregnancy Test	UPT Test strip method as documented in
Urine Pregnancy Test	GPQD/BI/SOP-11

NO: SAMM 895

Page: 30 of 35

HBA1C	TTAB-Tetradecyltrimethylammonium bromide
HBA1C	Turbidimetric/Cobas c501 documented as
HBA1C	electronically in Roche COBAS LINK/COBAS 6000
HbA1C	Spectrophotometry/Cobas c311 as documented electronically in Roche C311
Troponin T (POCT)	Quantitative immunological method as documented in Roche H232 (Cobas H232 Operator Manual)
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

Schedule

Issue date: 19 March 2025

Valid Until: -



NO: SAMM 895

Page: 31 of 35

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
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

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 32 of 35

(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
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/I NT-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/I NT-W10205

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Schedule

Issue date: 19 March 2025

Valid Until: -



NO: SAMM 895

Page: 33 of 35

Mean Corpuscular Hemoglobin?s Count	Aperture Impedance. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in SAS MEC@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 SAS MEC@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
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/INT-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

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 34 of 35

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
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/I NT-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/I NT-W10205

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 895

Page: 35 of 35

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-W110102
Full blood picture with clinical interpretation	Slide preparation and routine staining: (Automated) as documented in; SASMEC@IIUM/PALM/HAE-W10101/W10105 Haematology Slide Stainer Cytocentrifuge 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-W110203/ 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-W10202/ Sebia Capillarys 2 Flex Piercing User?s Manual
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-W110101/ Haematology Slide Stainer Cytocentrifuge User's Manual

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