


Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 1 of 66

LABORATORY LOCATION: (PERMANENT LABORATORY) 	Premier Integrated Labs Sdn. Bhd. (Batu Pahat Branch) 3rd Floor. Pantai Hospital Batu Pahat No.9S, Jalan Bintang Satu, Taman Koperasi Bahagia, 83000 Batu Pahat, Johor. , 83000, JOHOR MALAYSIA
ACCREDITED SINCE :	19 MARCH 2025
FIELD(S) OF MEDICAL TESTING :	CHEMICAL PATHOLOGY HAEMATOLOGY

The standard used for assessment of this laboratory is MS ISO 15189:2022 (ISO 15189:2022, IDT).

A medical laboratory's fulfilment of the requirements of ISO 15189 means the laboratory meets both the technical competence requirements and the management system requirements necessary for it to consistently deliver technically valid test results. The management system requirements in ISO 15189 are written in language relevant to a medical laboratory's operations. Medical laboratories that implement ISO 15189 operate generally in accordance with the principles of ISO 9001. (See Joint IAF-ILAC-ISO Communiqué, November 2021)

NO: SAMM 424

Page: 2 of 66

CENTRAL LOCATION	Premier Integrated Labs Sdn. Bhd. (Batu Pahat Branch) 3rd Floor. Pantai Hospital Batu Pahat No.9S, Jalan Bintang Satu, Taman Koperasi Bahagia, 83000 Batu Pahat, Johor. , 83000, Johor
FIELD(S) OF MEDICAL TESTING :	CHEMICAL PATHOLOGY, HAEMATOLOGY

SCOPE OF MEDICAL TESTING : CHEMICAL PATHOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Serum / Plasma	Bilirubin (Total)	Diazotized Sulfanilic Acid method using
	None	Dimension RXL Max Clinical Chemistry System
	None	as documented in Biochemistry Procedure
	None	Manual (Vol 1 of 2), CP135
	GammaGlutamyltranspe	IFCC non-correlated method using Dimension
	ptidase (GGT)	RXL Max Clinical Chemistry System as
	None	documented in Biochemistry Procedure Manual
	None	(Vol 4 of 2), CP085
	Urea Nitrogen	Kinetic method using Dimension RXL Max
	None	Clinical Chemistry System as documented in
	None	Biochemistry Procedure Manual (Vol 1 of 2),
	None	CP150
	Cholesterol (Total)	Enzymatic reaction method using Dimension
	None	RXL Max Clinical Chemistry System as
	None	documented in Biochemistry Procedure Manual
	None	(Vol 1 of 2),
	Triglyceride	Enzymatic end point reaction method using
	None	Dimension RXL Max Clinical Chemistry System
	None	as documented in Biochemistry Procedure
	None	Manual (Vol 1 of 2), CP145

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 3 of 66

Antibody screening	Column Agglutination Technology method as
None	documented in Blood Bank Procedure Manual
None	BP005
Triglycerides	Architect ci8200 based on Glycerol
None	Phosphate method as documented in
None	MSC/LAB/WI.03.01.01 Index 18.0
Urea	Architect ci8200 based on Urease method as
None	documented in MSC/LAB/WI.03.01.01 Index
None	19.0
Uric Acid	Architect ci8200 based on Uricase method
None	as documented in MSC/LAB/WI.03.01.01
None	Index 20.0
Hepatitis B Surface Antigen (HBsAG) Screening	ELISA method as documented in Index; 4.0
Human Immunodeficiency Virus (HIV I/II Antibody) Screening	ELISA method as documented in Index; 5.0
Sodium	Beckman Coulter AU680 ISE indirect method as
None	documented in ADL/Chempath/SOP
None	Olympus AU400 ISE indirect method as
None	documented in ADL/Chempath/SOP
Potassium	Beckman Coulter AU680 ISE indirect method as
None	documented in ADL/Chempath/SOP
None	Olympus AU400 ISE indirect method as
None	documented in ADL/Chempath/SOP
Chloride	Beckman Coulter AU680 ISE indirect method as
None	documented in ADL/Chempath/SOP
None	Olympus AU400 ISE indirect method as documented in ADL/Chempath/SOP
Urea	Beckman Coulter AU680 BUN or Urease / GLDH as

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 4 of 66

None	documented in ADL/Chempath/SOP
None	Olympus AU400 Urease/GLDH as documented in
None	ADL/Chempath/SOP
Creatinine	Beckman Coulter AU680 Jaffe IDMS as
None	documented in ADL/Chempath/SOP
None	Olympus AU400 Jaffe IDMS as documented in
None	ADL/Chempath/SOP
Uric acid	Beckman Coulter AU680 Uricase / POD as
None	documented in ADL/Chempath/SOP
None	Olympus AU400 Uricase / POD as documented in
None	ADL/Chempath/SOP
Calcium	Beckman Coulter AU680 o-Cresolphthalein
None	Complexone (oCPC) as documented in
None	ADL/Chempath/SOP
None	Olympus AU400 o-Cresolphthalein Complexone
None	(oCPC) as documented in ADL/Chempath/SOP
Inorganic Phosphate	Beckman Coulter AU680 Phosphomolybdate UV as
None	documented in ADL/Chempath/SOP
None	Olympus AU400 Phosphomolybdate, UV as
None	documented in ADL/Chempath/SOP
Total Protein	Beckman Coulter AU680 Biuret method as
None	documented in ADL/Chempath/SOP
None	Olympus AU400 Biuret method as documented in
None	ADL/Chempath/SOP
Albumin	Beckman Coulter AU680 Bromocresol Green (BCG)
None	method as documented in ADL/Chempath/SOP
None	Olympus AU400 Bromocresol Green (BCG) method
None	as documented in DL/Chempath/SOP

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 5 of 66

Total Bilirubin	Beckman Coulter AU680 3,5-dichlorophenyldiazonium tetrafluoroborate (DPD) as
None	documented in
None	ADL/Chempath/SOP
None	Olympus AU400 3,5-dichlorophenyldiazonium tetrafluoroborate (DPD) as
None	documented in
None	ADL/Chempath/SOP
Direct Bilirubin	Beckman Coulter AU680 3,5-dichlorophenyldiazonium tetrafluoroborate (DPD) as
None	documented in
None	DL/Chempath/SOP
None	Olympus AU400 3,5-dichlorophenyldiazonium tetrafluoroborate (DPD) as
None	documented in
None	ADL/Chempath/SOP
ALT	Beckman Coulter AU680 UV without Pyridoxal
None	Phosphate (P-5-P) as
None	documented in
None	ADL/Chempath/SOP
None	Olympus AU400 UV without Pyridoxal
None	Phosphate (P-5-P) as
None	documented in
None	ADL/Chempath/SOP
ALP	Beckman Coulter AU680 IFCC PNPP AMP Luffer
None	as documented in
None	ADL/Chempath/SOP
None	Olympus AU400 IFCC PNPP AMP Luffer as
None	documented in
None	ADL/Chempath/SOP
AST	Beckman Coulter AU680 UV without Pyridoxal
None	Phosphate (P-5-P) as
None	documented in
None	ADL/Chempath/SOP
None	Olympus AU400 UV without Pyridoxal
None	Phosphate (P-5-P) as
None	documented in
None	ADL/Chempath/SOP
Creatinine Kinase (CK)	Beckman Coulter AU680 NAC Activated IFCC as

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 6 of 66

None	documented in ADL/Chempath/SOP
None	Olympus AU400 NAC Activated IFCC as
None	documented in ADL/Chempath/SOP
Lactate	Beckman Coulter AU680 IFCC (L to P) as
Dehydrogenase (LDH)	documented in ADL/Chempath/SOP
None	Olympus AU400 IFCC (L to P) as documented in
None	ADL/Chempath/SOP
Triglyceride	Beckman Coulter AU680 GPO-POD as documented in ADL/Chempath/SOP
None	Olympus AU400 GPO- POD method as
None	documented in ADL/Chempath/SOP
Total Cholesterol	Beckman Coulter AU680 CHO-POD as
None	documented in ADL/Chempath/SOP
None	Olympus AU400 CHO- POD method as
None	documented in ADL/Chempath/SOP
B12	Two-step immunoassay using Chemiluminescent
Creatinine	Alkaline Picrate No Proteinization Analyzer -
None	AU5800 documented in WP/CP/001 as
None	Pengendalian Spesimen Patologi Kimia
None	IFCC Method - Analyzer AU5800 as documented in
Gamma Glutamyl Transferase (GGT)	Pengendalian Spesimen Patologi Kimia
None	Direct Immuno-Inhibition Method Analyzer -
None	AU5800 documented in WP/CP/001 as
None	Pengendalian Spesimen Patologi Kimia
HDL-Cholesterol	None
None	TPTZ Chromogen Method - Analyzer AU5800 as
None	documented in Pengendalian
None	Spesimen Patologi Kimia

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 7 of 66

Iron	IFCC Method - Analyzer AU5800 as documented in
None	WP/CP/001 Pengendalian Spesimen Patologi
None	Kimia
Lactate	None
Dehydrogenase (LD)	None
Magnesium	Xylidyl Blue Method - Analyzer AU5800 as
None	documented in Pengendalian
None	Spesimen Patologi Kimia
Phosphate	Phosphomolybdate UV Method - Analyzer AU5800
None	as documented in WP/CP/001 Pengendalian
None	Spesimen Patologi Kimia
Glucose	Hexokinase Method Analyzer AU5800 as
None	documented in Pengendalian
None	Spesimen Patologi Kimia
Protein, Total	Biuret, reagent blank, end point - Analyzer AU5800
None	as documented in WP/CP/001 Pengendalian
None	Spesimen Patologi Kimia
Antibody Screening /	Column Agglutination Technology, gel card /
Indirect Coomb- TM s Test	manual as in STM/BB/047
Group, Screen and Hold	Column Agglutination Technique, gel card /
Group, Screen and Hold	500 / automation as in STM/BB/058
Alanine	IFCC (L-alanine, tris buffer) Method,
Aminotransferase	Abbott Architect C8000 analyzer (B & C)
Aminotransferase	(HUSM/MPK/STM/A 009)
Albumin	Bromocresol Green Dye Binding, Colorimetric
Albumin	Method Abbott Architect C8000 analyzer (B & C)
Albumin	(HUSM/MPK/STM/A 008)
Alkaline Phosphatase	IFCC (p-nitrophenol phosphate substrate, AMP
Alkaline Phosphatase	Buffer) Method, Abbott Architect C8000 analyzer
Alkaline Phosphatase	(B & C) (HUSM/MPK/STM/A 011)
Amylase	p-Nitrophenyl Linked Substrate (Blocked
Amylase	maltoheptaoside - G7 PNP) Method, Abbott

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 8 of 66

Amylase	Architect C8000 analyzer (B & C)
Amylase	(HUSM/MPK/STM/A 012)
Arterial Blood Gas	ISE Method, Radiometer ABL 90 Flex
Arterial Blood Gas	(HUSM/MPK/STM/B 032)
Aspartate	(aspartate, tris buffer) Method, Abbott
Aminotransferase	Architect C8000 analyzer (B & C)
Aminotransferase	(HUSM/MPK/STM/A 010)
Bilirubin Total	Colorimetric Test, 2,4-Dichloroaniline (DCA),
Bilirubin Total	Abbott Architect C8000 analyzer (B & C)
Bilirubin Total	(HUSM/MPK/STM/A 006)
Bilirubin Conjugated	Colorimetric Test, 2,4-Dichloroaniline (DCA),
Bilirubin Conjugated	Abbott Architect C8000 analyzer (B & C)
Bilirubin Conjugated	(HUSM/MPK/STM/A 005)
Calcium	Arsenazo- III, Colorimetric Method, Abbott Architect
Calcium	C8000 analyzer (B & C) (HUSM/MPK/STM/A 026)
Chloride	ISE (Indirect) Method, Abbott Architect C8000
Chloride	analyzer (B & C) (HUSM/MPK/STM/A 024)
Creatine Kinase	IFCC (UV, NAC active) Method, Abbott Architect
Creatine Kinase	C8000 analyzer (B & C) (HUSM/MPK/STM/A 016)
Creatinine	Jaffe (alkaline picrate, rate, compensated) Method,
Creatinine	Abbott Architect C8000 analyzer (B & C)
Creatinine	(HUSM/MPK/STM/A 003)
Cholesterol	Cholesterol-oxidase Enzymatic, Endpoint
Cholesterol	Colorimetric Method, Abbott Architect C8000
Cholesterol	analyzer (B & C) (HUSM/MPK/STM/A 004)
HDL- Cholesterol	Direct, homogenous, immunological inhibition
HDL- Cholesterol	method, Abbott Architect C8000 analyzer (B & C)
HDL- Cholesterol	(HUSM/MPK/STM/A 018)
Lactate	DGKC Optimized Standard (Pyruvate to Lactate)
Dedhydrogenase	Method, Abbott Architect C8000 analyzer

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NO: SAMM 424

Page: 9 of 66

Dedhydrogenase	(B & C) (HUSM/MPK/STM/A 014)
Magnesium	Xylidyl Blue Dye Binding, Colorimetric Method
Magnesium	(HUSM/MPK/STM/A 027)
Phosphate	Ammonium phosphomolybdate Formation,
Phosphate	End-Point Colorimetric Method, Abbott Architect
Phosphate	C8000 analyzer (A & B) (HUSM/MPK/STM/A 025)
Potassium	ISE (indirect) Method, Abbott Architect C8000
Potassium	analyzer (B & C) 024)
Sodium	ISE (Indirect) Method, Abbott Architect C8000
Sodium	analyzer (B & C) 024)
Total Protein	Biuret, End-Point Colorimetric Method, Abbott
Total Protein	Architect C8000 analyzer (B & C)
Total Protein	(HUSM/MPK/STM/A 007)
Triglyceride	GPO-PAP Enzymatic, End-Point Colorimetric
Triglyceride	Method, Abbott Architect C8000 analyzer
Triglyceride	(B & C) (HUSM/MPK/STM/A 017)
Urea	Urease/GLDH Kinetic Method, Abbott Architect
Urea	C8000 analyzer (B & C)
Urea	(HUSM/MPK/STM/A 002)
Uric Acid	Uricase/peroxidase, End-Point Colorimetric
Uric Acid	Method, Abbott (B & C)
Uric Acid	(HUSM/MPK/STM/A 015)
1. Free thyroxine	In-vitro Quantitative Determination using
2. Thyroid Stimulating	Electrochemiluminescence Immunoassay
Hormone	Technique; Cobas e immunoassay analyzer as
3. Free triiodothyronine	documented in HUSM/ENDO/STM-02
Intact Human Chorionic	In vitro quantitative determination of the sum of
Gonadotropin + the B-	human chorionic gonadotropin (hCG) plus the
subunit (Total HCG)	hCG in human serum and plasma
subunit (Total HCG)	are performed using Automated Cobas e
subunit (Total HCG)	Immunoassay Analyzers based on

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 10 of 66

subunit (Total HCG)	electrochemiluminescent technology as
subunit (Total HCG)	documented in HUSM/ENDO/STM 4
Alpha Feto Protein (AFP)	CMIA method using Atellica Immunology as
None	documented in Immunology Procedures Manual
Total HCG	chapter UP700
None	CMIA method using Atellica Immunology as
None	documented in Immunology Procedures Manual
None	chapter UP742
CA 125	CMIA method using Atellica Immunology as
None	documented in Immunology Procedures Manual
None	chapter UP706
CA 153	CMIA method using Atellica Immunology as
None	documented in Immunology Procedures Manual
None	chapter UP707
CA 19.9	CMIA method using Atellica Immunology as
None	documented in Immunology Procedures Manual
None	chapter UP708
CEA	CMIA method using Atellica Immunology as
None	documented in Immunology Procedures Manual
None	chapter UP709
C-Reactive Protein	Latex-enhanced immunoturbidimetric using
None	Atellica Chemistry as
None	documented in Immunology Procedures Manual chapter CP294
Free T3	CMIA method using Atellica Immunology as
None	documented in Immunology Procedures Manual
None	chapter UP718
Free T4	CMIA method using Atellica Immunology as
None	documented in Immunology Procedures Manual
None	chapter UP717

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 11 of 66

Prostate Specific	CMIA method using Atellica Immunology as
Antigen, Total	documented in Immunology Procedures Manual
None	chapter UP734
Rheumatoid Factor	Latex-enhanced immunoturbidimetric method
None	using Atellica Biochemistry as documented in
None	Immunology Procedures Manual chapter CP299
Thyroid Stimulating	CMIA method using Atellica Immunology as
Hormone (TSH)	documented in Immunology Procedures Manual
None	chapter UP741
Antibody Screening / Indirect	Column agglutination (gel card) method
Antiglobulin Test	as documented in Blood Bank Procedure
None	Manual chapter BPO05
Beta hCG	Chemiluminescent immunoassay method
None	analysed with Beckman Coulter Access 2
None	Immunoassay system as documented in
None	MTM-CP-16
Dengue Virus Detection	Real-time PCR by abTEST-,,ç
RPR	Carbon Antigen (by Plasmatec) method / Rotator as documented in JSS/WI.03/1.06;
None	Index: 6.0
TPHA	Treponema Pallidum Haemagglutination (by
None	Veda Lab) method as documented in
None	JSS/WI.03/1.07; Index: 7.0
HBsAG Screening	ELISA method / Incubator 37 °C, Microplate
None	washer and Reader as documented in
None	JSS/WI.03/1.04; Index: 4.0
Anti-HIV 1&2 Screening	ELISA method / Incubator 37 °C, Microplate
None	washer and Reader as documented in
None	JSS/WI.03/1.05; Index: 5.0
RPR Testing for Syphilis	RPR test method (Qualitative Detection) /

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 12 of 66

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
C4	Immunoturbidimetric / Abbott Alinity C Analyzer
C4	Document Quality HSBAS/PAT/INT/TPM/29
Transferin	IMMUNOTURBIDIMETRIC / Abbott Alinity C
Transferin	Analyzer

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 13 of 66

Transferrin	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
CKMB	Document Quality HSBAS/PAT/INT/TPM/29
Procalcitonin	MMUNOCHEMILUMINOMETRIC / Abbott Alinity Analyzer
Procalcitonin	Document Quality HSBAS/PAT/INT/TPM/29

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 14 of 66

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
Bilirubin Total	Machine: Beckman Coulter AU480
Bilirubin Total	Procedures are as documented in
Bilirubin Total	MV-SOP-CP-01
Chloride	Method: ISE indirect

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 15 of 66

Chloride	Machine: Beckman Coulter AU480
Chloride	Procedures are as documented in
Chloride	MV-SOP-CP-01
Cholesterol-Total	Method: Cholesterol oxidase,
Cholesterol-Total	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,
Cholesterol-HDL	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,
Creatinine	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-
G-Glutamyltransferase	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
Iron	Procedures are as documented in
Iron	MV-SOP-CP-01
Potassium	Method: ISE indirect
Potassium	Machine: Beckman Coulter AU480

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-mt/3003659> for the current scope of accreditation

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 16 of 66

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
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

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 17 of 66

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
HBsAg	HBsAg ELISA method -" Double Antibody
HBsAg	Sandwich Principle as documented in
HBsAg	MTM-IH-01

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 18 of 66

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
Albumin	Bromocresol Purple (BCP) method using
None	Dimension Clinical Chemistry System as

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 19 of 66

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	Cresolphthaleincomplexone 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
None	Clinical Chemistry System as documented in
None	Biochemistry Procedure Manual Chapter CP050

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 20 of 66

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
None	Chapter CP100
Phosphate (inorganic)	Modified Phosphomolybdate method using

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 21 of 66

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
TPHA	TPHA kits based Passive Hemagglutination
TPHA	Method

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 22 of 66

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	Immuno-electrochemiluminescence/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
Hepatitis C antibody	Immuno-electrochemiluminescence/Cobas e801 (6)
Hepatitis C antibody	as documented electronically in Roche Cobas

Schedule

Issue date: 19 March 2025

Valid Until: -



NO: SAMM 424

Page: 23 of 66

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/Euroimmue (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)
lymphotropic virus types	as documented in Operator Manual
1&11	nan
(HTLV-1 and HTLV-2)	nan

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 24 of 66

Mycoplasma antibody	Passive Particle agglutination/Manual assay as documented in MYC AB (GPQD/SER/SOP-16)
Mycoplasma antibody	Immunoelectrochemiluminescence/Cobas e801 (6)
Cytomegalovirus IgG 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	Immunoelectrochemiluminescence 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	mmunoelectrochemiluminescence/Cobas e801 (6) as
Anti HBc IgM	documented in electronically in Roche Cobas LINK/
Anti HBc IgM	Cobas e801
Anti HBc Total	mmunoelectrochemiluminescence/Cobas e801 (6) as
Anti HBc Total	documented in electronically in Roche Cobas LINK/
Anti HBc Total	Cobas e801
Anti HBs	mmunoelectrochemiluminescence/Cobas e801 (6) as
Anti HBs	documented in electronically in Roche Cobas LINK/
Anti HBs	Cobas e801
HbsAg	mmunoelectrochemiluminescence/Cobas e801 (6) as
HbsAg	documented in electronically in Roche Cobas
HbsAg	LINK/Cobas e801
Rubella IgG	Immunoelectrochemiluminescence/Cobas e801(6) as
Rubella IgG	documented in electronically in Roche Cobas LINK/
Rubella IgG	Cobas e801
Rubella IgM	mmunoelectrochemiluminescence/e801 (6) as
Rubella IgM	documented in electronically in Roche Cobas LINK/

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 25 of 66

Rubella IgM	Cobas e801
Toxoplasma IgG	mmunoelectrochemiluminesc e/Cobas e801 (6)
Toxoplasma IgG	as documented in electronically in Roche Cobas
Toxoplasma IgG	LINK/ Cobas e801
Toxoplasma IgM	mmunoelectrochemiluminesc e/Cobas e801 (6) as
Toxoplasma IgM	documented in electronically in Roche Cobas LINK/
Toxoplasma IgM	Cobas e801
Anti - HAV IgG	mmunoelectrochemiluminesc e/Cobas e801 (6) as
Anti - HAV IgG	documented in electronically in Roche Cobas LINK/
Anti - HAV IgG	Cobas e801
Anti HAV IgM	mmunoelectrochemiluminesc e/Cobas e801 (6) as
Anti HAV IgM	documented in electronically in Roche Cobas LINK/
Anti HAV IgM	Cobas e801
Anti HCV	mmunoelectrochemiluminesc e 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	Immuno-electrochemiluminesc e/Cobas e411 as
AFP	documented electronically in Roche Cobas LINK/
AFP	Cobas e411
CEA	Immuno-electrochemiluminesc e/Cobas e411 as
CEA	documented electronically in Roche Cobas LINK/
CEA	Cobas e411
PSA - Total	Immuno-electrochemiluminesc e/Cobas e411 as
PSA - Total	documented electronically in Roche COBAS
PSA - Total	LINK/COBAS e411

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 26 of 66

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
Aminotransferase	phosphate)/Cobas c311 as documented
Aminotransferase	electronically in Roche COBAS LINK/COBAS c311
Albumin	Colourimetry - Tris Buffer (IFCC w/o pyridoxal
Albumin	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
Aminotransferase	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
Direct Bilirubin	Colourimetry - Diazo as documented electronically
Direct Bilirubin	in Roche COBAS LINK/COBAS c311

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 27 of 66

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
Potassium	Indirect ISE/Cobas c311 as documented
Potassium	electronically in Roche COBAS LINK/COBAS c311

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 28 of 66

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	Immunoelctrochemiluminescenc e/Cobas e601 as
Anti HBs	documented electronically in Roche COBAS
Anti HBs	LINK/COBAS e601
HbsAg	Immunoelctrochemiluminescenc e/Cobas e601 as
HbsAg	documented electronically in Roche COBAS
HbsAg	LINK/COBAS e601
HIV Ag/Ab Combo	Immunoelctrochemiluminescenc e/Cobas e601 as
(cHIV)	documented electronically in Roche COBAS
(cHIV)	LINK/COBAS e601
Anti HCV	Immunoelctrochemiluminescenc e/Cobas e601 as
Anti HCV	documented electronically in Roche COBAS

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 29 of 66

Anti HCV	LINK/COBAS e601
Anti -" HAV Total	Immunoelctrochemiluminescenc e/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	Immunoelctrochemiluminescenc e/Cobas e601 as
Anti HBs	documented in electronically in Roche COBAS
Anti HBs	LINK/COBAS 6000
HBsAg	Immunoelctrochemiluminescenc e/Cobas e601 as
HBsAg	documented in electronically in Roche COBAS
HBsAg	LINK/COBAS 6000
HIV Ag/Ab	Immunoelctrochemiluminescenc e/Cobas e601 as
HIV Ag/Ab	documented in electronically in Roche COBAS
HIV Ag/Ab	LINK/COBAS 6000
Anti -" HAV Total	Immunoelctrochemiluminescenc e/Cobas e601 as
Anti -" HAV Total	documented in electronically in Roche COBAS
Anti -" HAV Total	LINK/COBAS 6000
Anti HCV	Immunoelctrochemiluminescenc e/Cobas e601 as
Anti HCV	documented in electronically in Roche COBAS
Anti HCV	LINK/COBAS 6000

NO: SAMM 424

Page: 30 of 66

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
HBsAg	Electrochemiluminescence Immunoassay
HBsAg	(ECLIA) / Roche Cobas e 411 as documented
HBsAg	in IMR/IDRC/VIRO/SOP/HEP/02

NO: SAMM 424

Page: 31 of 66

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
Gamma- Glutamyl Transferase Assay	Architect ci8200 based on L- Gamma_ glutamyl- 3carboxy-4-nitroanilide Substrate enzymatic method as documented in LWI CP012

NO: SAMM 424

Page: 32 of 66

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

SCOPE OF MEDICAL TESTING : HAEMATOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods,Specifications/ Equipment/Techniques Used
Whole Blood	Cross-matching	Column Agglutination Technology method as documented in Blood Bank Procedure Manual,
	None	BP026
	ABO & Rh (D) Blood	Tube method as documented in Blood Bank
	Grouping	Procedure Manual, BP020
	None	Semi-automated column agglutination method
	None	as documented in Blood Bank Procedure
	None	Manual, BP124
	HBA1C	Architect ci8200 based on enzymatic method as documented in MSC/LAB/WI.03.04 index
	None	21.0
	ABO & Rhesus	Microtitre Plate and Tube Method as
	Blood Grouping	documented in MSC/LAB/WI.03.03; Index;1.0

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 33 of 66

None	Indirect Antiglobulin Test as documented in
None	MSC/LAB/W1.03.03; Index; 4.0
FBC with 5 parts differential count	BC-5380 based on WBC/DC -" flowcytometry by laser, Electrical Impedence method, Hb -" Colorimetric method,
None	RRC/PLT -" Electrical Impedence method
None	as documented in MSC/LAB/W1.03.03 Index
None	7.0
Malaria Parasite	Qualisa TM Malaria / ELISA method and
None	thick & thin film using microscopy Method
None	as documented in
None	Index;1.0 & 9.0
None	HPLC Ion Exchange Method as documented in
None	Capillarys 3 Octa
ESR	Sedimentation of blood cell in 30 minutes
None	Method as documented in General Chemistry
None	Volume 2: HCTM/JPMD/ISO15189/UPK/MPT-
None	GCV1-(A)-51 / Streck ESR Auto Plus
pH	Ion Selective Electrode Method as documented
None	in General Chemistry Volume 2:
None	HCTM/JPMD/ISO15189/UPK/MP T-GCV1-(A)-49
None	/ Gem Premier 3500
PO2	Amperometric Electrode Method as documented
None	in General Chemistry Volume 2:
None	HCTM/JPMD/ISO15189/UPK/MP T-GCV1-(A)-49
None	/ Gem Premier 3500
PCO2	CO2 permeable membrane / Ion Selective
None	Electrode Method as documented in General
None	Chemistry Volume 2:
None	HCTM/JPMD/ISO15189/UPK/MP T-GCV1-(A)-49
None	/ Gem Premier 3500
FBC	None

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 34 of 66

(Full Blood Count):	None
1. RBC and Platelet	Sheath flow DC detection method Automatic /
Count	Automated Hematology / Sysmex XN3000 &
None	XN1000 as Documented in
None	HCTM/JPMD/ISO15189/HEMAT O/MPT-01
RBC Indices	Sheath flow DC detection method (Calculated
None	and Histogram) / Automated Hematology
None	Analyzer / Sysmex XN3000 & XN1000 As
None	Documented in
None	HCTM/JPMD/ISO15189/HEMAT O/MPT-01
Hemoglobin	SLS-Hemoglobin Method Automatic Machine
None	/ Automated Hematology Analyzer / Sysmex
None	XN3000 & XN1000 as documented in
WBC Count	Flow cytometry method using semiconductor
WBC Indices	laser Automatic Machine / Automated
None	Hematology Analyzer / Sysmex XN3000 &
None	XN1000 as documented in
None	HCTM/JPMD/ISO15189/HEMAT O/MPT-01
Reticulocytes	Flow cytometry method using semiconductor
None	laser Automatic Machine / Automated
None	Hematology Analyzer / Sysmex XN3000 as
None	documented in
FBP	Automatic slide preparation and staining
(Full Blood Picture)	Eosin Methylene Blue Solution)
None	using Automatic Machine: Automated
None	Hematology Analyzer: Sysmex SP 10 As
None	Documented in
None	HCTM/JPMD/ISO15189/HEMAT O/MPT-02
None	Manual slide preparation and staining

Schedule

Issue date: 19 March 2025

Valid Until: -



NO: SAMM 424

Page: 35 of 66

None	Stain) As Documented in
None	HCTM/JPMD/ISO15189/HEMATO/MPT-03
G6PD Screening	Spot test/ UV Light/ Fluorescent Polarization
None	As documented in
None	HCTM/JPMD/HEMATO/MPT-14
G6PD Enzyme Level (Quantitative)	Enzymatic colorimetric method (spectrophotometer) / EL-808 (EL1) and ELx
None	808 (EL2) as documented in
None	HCTM/JPMD/HEMATO/MPT-15
BCR-ABL Gene (Ujian	- Reverse transcript PCR / GeneAmp PCR
RT-PCR BCR-ABL)	Thermal Cycler 9700 ABI
None	- Agarose gel electrophoresis - Mini Gel
None	Horizontal Electrophoresis System
None	- Gel documentation - Gel Doc-„¢ XR+ with
None	Image Lab-„¢ Software
None	As documented in HCTM/JPMD/UMG/MPT-01
JAK2 V617F Mutation	- Amplification Refractory Mutation Specific
(Ujian Mutasi JAK2	(ARMS) PCR Thermal Cycler 9700 ABI
V617F)	- Agarose gel electrophoresis - Mini Gel
None	Horizontal Electrophoresis System
None	- Gel documentation - Gel Doc-„¢ XR+ with
None	Image Lab-„¢ Software
None	As documented in HCTM/JPMD/UMG/MPT-02
Chimerism of	- Short Tandem Repeat PCR: - GeneAmp
Peripheral Blood Stem	PCR Thermal Cycler 9700 ABI
Cell Transplant	- Capillary Electrophoresis: Genetic Analyzer
(PBSCT)	3130 Applied Biosystems
(Ujian Kimerisme	- Fragment Analysis: GeneMapper Software 4.0
(STR))	None
None	As documented in HCTM/JPMD/UMG/MPT-03
Alpha Thalassemia	- Multiplex PCR: GeneAmp PCR Thermal
Genotype	Cycler 9700 ABI

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Schedule

Issue date: 19 March 2025

Valid Until: -



NO: SAMM 424

Page: 36 of 66

(Ujian Mutasi Alfa	- Agarose gel electrophoresis - Mini Gel
Thalassemia (Delesi))	Horizontal Electrophoresis System
None	- Gel documentation - Gel Doc-„¢ XR+ with
None	Image Lab-„¢ Software
None	As documented in HCTM/JPMD/UMG/MPT-04
Hb Analysis:	Capillary Electrophoresis Method (Sebia
Hb A2, Hb F and	Capillarys 2 System)
Hb Variant	Ion- exchange high performance liquid
None	chromatography (HPLC) (Variant II
None	Hemoglobin Testing System)
None	As Documented in
None	HCTM/JPMD/ISO15189/HEMAT O/MPT-11
CD 4/ CD 8 Count (%)	4 Fluorochromes/Gating CD45 based and
and Absolute Count:	BD FACS Lysing Solution Lysing System /
- CD3+/CD4+	Automatic Machine - BD FACSLytic-„¢
- CD3+/CD8+	as Documented in
Lymphocyte Subset (%)	HCTM/JPMD/ISO15189/HEMAT O/MPT-13
and Absolute Count:	None
- Lymphocytes (%) and	None
Absolute Count	None
- CD3+/CD4+	None
CD3+ / CD8+	None
CD3+	None
CD19+	None
CD3- / CD16+ / CD56+	None
Karyotyping	G Banding as documented in
None	ADL/Genetics/SOP
Full Blood Count	Blood Cell Count: Direct current detection
(FBC)	method by Sysmex XN-1000 as documented in
None	ADL/Haemato/SOP
Full Blood Picture	Blood Cell Count: Direct current detection
(FBP)	method by Sysmex XN-1000 as documented in
None	ADL/Haemato/SOP
None	Stain Method as documented in
None	ADL/Haemato/SOP

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 37 of 66

Forward ABO, Rhesus	Tube Method / Gel Card (Antibody-Antigen
(D) and Reverse	Reaction) method as documented in
Grouping	ADL/Transmed/SOP
Rhesus Typing	Tube Method / Gel Card (Antibody-Antigen
None	Reaction) method as documented in
None	ADL/Transmed/SOP
Direct Coombs Test	Tube Method / Gel Card (Antibody-Antigen
None	Reaction) method as documented in
None	ADL/Transmed/SOP
Indirect Coombs Test /	Gel Card (Antigen-Antibody Reaction) method as
Antibody Screening	documented in ADL/Transmed/SOP
Blood Gases, Arterial and	Potentiometry Method by using Rapid Lab
Venous (ABG, VBG)	1265 as documented in
Venous (ABG, VBG)	DSI-RCH-013-E01
Cyclosporin (CSA)	Chemiluminescent Microparticle
Cyclosporin (CSA)	Immunoassay by using Abbott Architect
Cyclosporin (CSA)	Ci4100 as documented in
Cyclosporin (CSA)	DSI-SCH-003-E01
Tacrolimus (FK506)	Chemiluminescent Microparticle
Tacrolimus (FK506)	Immunoassay by using Abbott Architect
Tacrolimus (FK506)	Ci4100 as documented in
Tacrolimus (FK506)	DSI-SCH-007-E01
Sirolimus	Chemiluminescent Microparticle
Sirolimus	Immunoassay Immunoassay by using Abbott
Sirolimus	Architect Ci4100 as documented in
Sirolimus	DSI-SCH-011-E01
Ammonia	Cation Exchange HPLC by using Bio Rad
Ammonia	Variant II Turbo as documented in
Ammonia	DSI-SCH-009-E01
ESR	Micro-Agglutination Method as documented in
ESR	DSI-RHE-008-E01
Hemoglobin Analysis	High Performance Liquid Chromatography by
Hemoglobin Analysis	using Bio-Rad Variant II (Automated) as

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 38 of 66

Hemoglobin Analysis	documented in DSI-SHE-020-E01
Hemoglobin Analysis	Hb Electrophoresis by using Sebia Hydrasys 2
Hemoglobin Analysis	Scan (Semi-Automated) as documented in
Hemoglobin Analysis	DSI-SHE-023-E01
G6PD Screen	Fluorescence Spot Test as documented in the
G6PD Screen	DSI-SHE-009-E03
Complete Blood Count (CBC)	Cell Count by using Sysmex XN9112 Analyser as documented in DSI-RHE-007-E03
Differential Count	Cell Count by using Sysmex XN9112 Analyser
Differential Count	as documented in DSI-RHE-007-E03
Differential Count	Slide (Manual Method) as documented in
Differential Count	DSI-RHE-003-E01 and DSI-RHE-005-E01
PBF	Manual microscopy by using Eosin-TM's Stains as
PBF	documented in
PBF	DSI-RHE-004-E02
Reticulocytes (Retic)	Cell Count by using Sysmex XN9112 Automated
Reticulocytes (Retic)	System as documented in-DSI-RHE-007-E03
Parameters:	None
Haemoglobin (Hb)	SLS-Hemoglobin Cyanide Free
Haematocrit (HCT)	Cumulative Pulse Height Detection Method
Red Cell Count (RCC)	Hydrodynamic Focusing DC Detection Method
Platelet count (PLT)	Hydrodynamic Focusing DC Detection Method
White Cell Count (WBC)	Flow Cytometry with Semi-Conductor Laser
Reticulocytes (Retic)	Flow Cytometry Fluorescent with Semi-
Reticulocytes (Retic)	Conductor Laser/E02
HAV IgG	COBAS e801/
HAV IgG	Electrochemiluminescence technology as documented in DSI-VIR-029-
HAV IgG	E01
HEPATITIS B HBV DNA	1. Fully automated extraction of viral nucleic
Blood Gases and pH	Method as documented in CP-STM01;

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 39 of 66

Blood Gases and pH	Siemens Rapid500e (Electrochemical /
Blood Gases and pH	Potentiometric)
Glycated Haemoglobin	HPLC Method as documented in CP-
Glycated Haemoglobin	STM34; Biorad Variant II Turbo
Cyclosporine (EDTA)	Chemiluminescent Microparticle immunoassay (CMIA) - Two-step Method as documented in CP-STMXX; Alinity i
Full Blood Count (FBC	FBC Using 5-Part Analyser:
e Red Blood Cell	Combined Flow Cytometry with semiconductor laser and DC detection with
e White Blood Cell	hydro dynamic focusing method by Mindray
e Hemoglobin e Haematocrit	BC6200 Hematology Analyzer as documented in PDN/HA/WI-05
e MCV	None
MCH	None
MCHC	None
e Platelet	None
Red Cell Phenotyping	Manual Testing by Tube and Gel Card
None	Technique as Documented in PDN/IH/PTM-21
Direct Coombs-™ Test	Manual Testing by Tube and Gel Card
None	Technique as Documented in PDN/IH/PTM-23
Elution Techniques	Manual Testing by Tube and Gel Card
None	Technique as Documented in
None	PDN/IH/PTM-24
ABO/RhD Grouping	Manual Testing by Tube, Microtiter Plate and
None	Gel Card Technique as Documented in
None	PDN/IH/PTM-18
ABO/RhD Grouping	Automated testing by Gel Card Technique as
None	Documented in PDN/TL/WI/02
None	1. Variant II Turbo/ High Performance Liquid
None	Chromatography (HPLC) as Documented in
None	HM/JP/PATK/TPM-026
None	2. Pengendalian Peralatan Variant -,ø II Turbo as
None	documented in HM/JP/PatK/AK-028

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 40 of 66

Full blood count	Fluorescence Flow Cytometry, Hydro Dynamic
None	Focusing and SLS hemoglobin determination
None	methods/ SYSMEX XN Series (XN3000 & XN
None	1000) as documented in SYSMEX XN Series
None	HM/JP/HAEM/WI-17 and HM/JP/HAEM/TPM-
None	001.
None	Pengendalian Spesimen di Unit Haematologi
None	HM/JP/HAEM/QP-001.
Full Blood Picture	Automated Staining Aerospray and Microscopic
None	Examination Method/ Sysmex SP10/ Aerospray
None	(Automated staining) as documented in
None	HM/JP/HAEM/WI-020 and
None	HM/JP/HAEM/QP-011
None	Automated Slide and Staining SP10 as
None	documented in HM/JP/HAEM/WI-017
Reticulocyte Count	Fluorescence Flow / Sysmex XN1000 as
None	documented in Reticulocytes count
None	HM/JP/HAEM/TPM-06
G6PD screening	Fluorescent screening / G6PD Fluorescent Box
None	as Documented in HM/JP/HAEM/TPM-020
G6PD Enzyme Assay	Enzymatic calorimetric method / OSMMR-2000D
None	as documented in HM/JP/HAEM/TPM-037
HB Analysis	Capillary Electrophoresis / Serbia Capillary
None	Electrophoresis Method as documented in
None	HM/JP/HAEM/WI-019
None	High Performance Liquid Chromatography/ BIO-
None	RAD Variant II as documented in
None	HPLC: HM/JP/HAEM/TPM-023
None	Hb Analysis: HM/JP/HAEM/QP-009

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 41 of 66

Erythrocytes	ESR Alifax Roller 2PN as documented in
Sedimentation Rate	HM/JP/HAEM/TPM-019 and
None	HM/JP/HAEM/WI-027
CD4/CD8	Flow Cytometry Method/ Beckman Coulter
None	Aquious
None	As documented in CD4/CD8:
None	HM/JP/HAEM/TPM-021 and
None	HM/JP/HAEM/WI 028.
Arterial Blood	Potentiometric method as documented in
GasespH, pCO2	HA/PAT/IN/AK-15 Pengendalian Analyzer
None	Blood Gas GEM Premier 3500
po2	Amperometric method as documented in
None	HA/PAT/IN/AK-15 Pengendalian Analyzer
None	Blood Gas GEM Premier 3500
Cyclosporine	CMA method as documented in HA/PAT/BK/AK-
None	08 Architect
None	Cation-Exchange HPLC as documented in HA/PAT/BK/AK-07
Red Cell Count	Sheath Flow DC Detection Method
None	asdocumented in HA/PAT/IN/TPM-
None	J1 &HA/PAT/IN/AK-01 SYSMEX XN
White Cell Count	Flowcytometry Method using Semi-
None	Conductor Laser as documented in
None	HA/PAT/IN/TPM-J3 & HA/PAT/IN/AK-
None	01SYSMEX XN
Hemoglobin	SLS-Hemoglobin Method as documented inHA/PAT/IN/TPM-J3 & HA/PAT/IN/AK-01
None	SYSMEX XN
Hematocrit	Sheath Flow DC Detection Method
None	asdocumented in HA/PAT/IN/TPM-
None	J1 &HA/PAT/IN/AK-01 SYSMEX XN
Platelet Count	Sheath Flow DC Detection Method

Schedule

Issue date: 19 March 2025

Valid Until: -



NO: SAMM 424

Page: 42 of 66

None	as documented in HA/PAT/IN/TPM-
None	J1 & HA/PAT/IN/AK-01 SYSMEX XN
ESR	Modified Westergren Method as
None	documented in HA/PAT/IN/AK-13
None	Pengendalian Analyzer KIMA Sed Auto 20
G6PD (screening)	Enzymatic Qualitative Method as
None	documented in HA/PAT/BK/AK-
HbA1c	A12
None	HPLC method - Analyzer Biorad D10 as
None	documented in
None	Pengendalian Spesimen Patologi Kimia
Full Blood Count /	WBC / RBC / Platelet
Full Blood Picture	Laser Light Scatter / Hemoglobin / Cyanide Free
None	Hb / Sysmex XN 1000
None	Method as documented in WI/HM/032
Slides	Manual Method as documented in WI/HM/002
None	Automated Slide Preparation / Sysmex SP-50 as
None	documented in WI/HM/009
Reticulocyte Count	Flowcytometry with semi-conductor laser /
None	Sysmex XN1000 Method as documented in
None	WI/HM/032
Hemoglobin Analysis	Capillary Electrophoresis / Sebia Flex Piercing
None	Method as documented in WI/HM/031
None	High performance liquid chromatography / Biorad
None	Variant II Method as documented in
None	WI/HM/004
HbA1C	Turbidimetric Inhibition Immunoassay (TINIA)
None	as documented electronically in Roche
None	COBAS LINK/COBAS 6000
Blood Grouping	Immune agglutination as documented in
None	GPQD/QD-HAE/SOP-1 for manual method

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NO: SAMM 424

Page: 43 of 66

None	and Galileo Neo Instrument Manual for Auto
None	Method/Galileo Neo
Full Blood Count	Multi-Angle Polarized Scatter Separation,
None	optical laser light scatter and colourimetry as
None	documented in CellDyn Ruby Instrument
None	Manual/CellDyn Ruby
Malarial Parasites	CellDyn Ruby based on MAPSS technology as
None	documented in CellDyn Ruby Instrument
None	Manual/CellDyn Ruby and Manual microscopy
None	as documented in GPQD/QD-HAE/SOP-2
HbA1c	Cation Exchange HPLC / Bio-Rad Variant II
HbA1c	Turbo (SEM/CP/004) as Documented in
HbA1c	STM/CP/004
Blood Gases and pH	Direct Ion Selective Electrochemistry/
Blood Gases and pH	Radiometer ABL90 Flex Plus (SEM/CP/001) as
Blood Gases and pH	Documented in STM/CP/ 001
Detection of Malaria Parasite	Blood Film Malarial-Parasite Method as
/ Microfilaria	documented in HUSM/MICRO/STM-05
Enumeration of	Immunophenotyping direct immunofluorescence
Lymphocytes Subsets	technique: flowcytometer as documented in
(TBNK)	HUSM/IMMUNO/STM/01-2008
HbA1c	In-vitro Quantitative Determination using
HbA1c	Capillary Electrophoresis Technique; Sebia
HbA1c	Analyzer as documented in
HbA1c	HUSM/ENDO/STM-01
Glycated Hemoglobin	HPLC method documented in as
Glycated Hemoglobin	HPP/PAT/CP/WI-034 using Biorad D100
Blood Gases, Arterial	Electrode as documented in HPP/PAT/CP/WI-
(ABG)	063 Using Radiometer ABL 90 Flex Plus

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 44 of 66

Blood Gases, Venous	Electrode as documented in HPP/PAT/CP/WI-
(VBG)	063 Using Radiometer ABL 90 Flex Plus
Full Blood Count	Analysis of WBCs with Flow Cytometer,
Reticulocyte Counts	Haemoglobin using colorimetric Method, RBC
NRBC Counts	and PLT Using electrical impedance method with
NRBC Counts	Mindray BC6200 method as documented in
NRBC Counts	HPP/PAT/HM/WI/71
Full Blood Picture	Procedure documented in as
Full Blood Picture	HPP/PAT/HM/WI/04
Hb Analysis	Capillary electrophoresis using Sebia Capillary 2
Hb Analysis	Flex-Piercing Method documented in as
Hb Analysis	HPP/PAT/HM/WI/50)
Hb Analysis	HPLC method using HPLC Biorad Variant II
Hb Analysis	Method as documented in HPP/PAT/HM/WI/52)
Erythrocyte	Erythrocyte Sedimentation Rate using MIX-RATE
Sedimentation Rate	ESR Analyzer
Sedimentation Rate	A modification base on the Westergren Method
Sedimentation Rate	as documented in
Sedimentation Rate	HPP/PAT/HM/WI/141
CD4/CD8 Enumeration	Flow Cytometry Quantitation of CD4/CD8 in
CD4/CD8 Enumeration	absolute and percentage count using Beckman
CD4/CD8 Enumeration	Coulter AQUIOS CL Flow Cytometer Method as
CD4/CD8 Enumeration	documented in
Leukaemia and lymphoma	Flowcytometry method using FACS Canto II
Molecular	Quantitative detection of BCR-ABL1
Quantitation Major	chromosomal translocation mRNA
BCR-ABL (p210)	transcript (types e13a2/b2a2 or e14a2/b3a2) by using
BCR-ABL (p210)	polymerase
BCR-ABL (p210)	chain reaction using Cepheid
BCR-ABL (p210)	Genexpert System as documented in
BCR-ABL (p210)	HPP/PAT/HM/WI/77

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 45 of 66

None	Blood Cell Count: Direct Current Detection with
RBCs count	Hydro Dynamic Focusing Method as
RBCs count	documented in HTAA/PAT/HEMA/AK03-01
RBCs count	Sysmex XN 3000
WECs count	Blood Cell Count: Flowcytometry with Semi
WECs count	Conductor Laser Method as documented in
WECs count	HTAA/PAT/HEMA/AK03-01 Sysmex XN 3000
Haemoglobin	Blood Cell Count: SLS hemoglobin Cyanide
Haemoglobin	Free Method as documented in
Haemoglobin	HTAA/PAT/HEMA/AK03-01 Sysmex XN 3000
Haematocrit	Blood Cell Count: Direct Current Detection with
Haematocrit	Hydro Dynamic Focusing Method as
Haematocrit	documented in HTAA/PAT/HEMA/AK03-01
Haematocrit	Sysmex XN 3000
Mean Cell Volume	Blood Cell Count: Calculated Method as
(MCV)	documented in HTAA/PAT/HEMA/AK03-01
(MCV)	Sysmex XN 3000
Mean Cell Haemoglobin	Blood Cell Count: Calculated Method as
(MCH)	documented in HTAA/PAT/HEMA/AK03-01
(MCH)	Sysmex XN 3000
Mean Cell Haemoglobin	Blood Cell Count: Calculated Method as
Concentration (MCHC)	documented in HTAA/PAT/HEMA/AK03-01
Concentration (MCHC)	Sysmex XN 3000
Platelet count	Blood Cell Count: Direct Current Detection with
Platelet count	Hydro Dynamic Focusing Method as
Platelet count	documented in HTAA/PAT/HEMA/AK03-01
Platelet count	Sysmex XN 3000
Reticulocyte count	Blood Cell Count: Flowcytometry with Semi
Reticulocyte count	Conductor Laser Method as documented in

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 46 of 66

Reticulocyte count	Sysmex XN 3000
Differential count	Flowcytometry with Semi Conductor Laser
(Neutrophil, Lymphocyte, Monocyte, Eosinophil and Basophil)	Method as documented in Sysmex XN 3000
Basophil)	None
Basophil)	Slide Preparation and Routine Staining
Basophil)	(Automated) as documented in HTAA/PAT/HEMA/AK01-01 and Hematology
Basophil)	Slide Stainer Cytocentrifuge Manual
Full Blood Picture:	Flowcytometry / DC Detection / SLS
a) Blood cell count and Reticulocyte count	Hemoglobin Methods as documented in HTAA/PAT/HEMA/AK01-01 Sysmex XN 3000
b) Differential count	Slide Preparation and Routine Staining
(Manual) & Morphology	(Automated) as documented in HTAA/PAT/HEMA/AK01-01 and Hematology
(Manual) & Morphology	Slide Stainer Cytocentrifuge Manual
Haemoglobin Analysis:	None
a) Blood cell count	Flowcytometry / DC Detection / SLS
a) Blood cell count	Hemoglobin Methods as documented in HTAA/PAT/HEMA/AK03-01 Sysmex XN 3000
b) Haemoglobin	Electrophoresis Method as documented in HTAA/PAT/HEMA/AK02-03 and User-™s Manual
Electrophoresis	Sebia Hydrasys Electrophoresis System
c) Hb Az and Hb F	High Performance Liquid Chromatography
Quantitation	(HPLC) Method as documented in HTAA/PAT/HEMA/AK02-02 and User-™s Manual
Quantitation	Variant Biorad II
Hb H Inclusion Bodies q)	Specimen Preparation and Special Staining
Hb H Inclusion Bodies q)	(Manual Method) as documented in HTAA/PAT/HEMA/AK02-04
Hb H Inclusion Bodies q)	

NO: SAMM 424

Page: 47 of 66

e) Morphology	Specimen Preparation and Routine Staining
e) Morphology	(Automated) as documented in
e) Morphology	HTAA/PAT/HEMA/AK01-01 and Hematology
e) Morphology	Slide Stainer Cytocentrifuge Manual
f) Capillary	Electrophoresis method using Electro-Osmotic
Electrophoresis	Flow (EOF) as documented in
Electrophoresis	Capillary 2 Sebia
Electrophoresis	Flex Piercing
Blood film malaria	Thick & thin film, permanent stain (Giemsa)
Parasite	Manual microscopy Method as documented in
Parasite	HTAA/PAT/PARA/AK01-02
ESR	Infrared barrier / Automated Sed-rate Analyser
ABO Grouping & Rh	Tube Method or Column Agglutination as
Group, Screen and	Tube Method / Column Agglutination as
Full Blood Count (FBC)	Automation test using method based on
Full Blood Count (FBC)	impedance and flow cytometry light scattering
Full Blood Count (FBC)	using Sysmex XN-3000 as documented in
Full Blood Count (FBC)	HTJS/AK/PAT/HEMA/10
G6PD Screening	Result is given by qualitative interpretation in the
G6PD Screening	presence of fluorescence blood spot as
G6PD Screening	documented in HTJS/AK/PAT/HEMA/14
Full Blood Picture (FBP)	Automation smear and staining using Wright Stain
Full Blood Picture (FBP)	on Sysmex Sp-10 as documented in
Full Blood Picture (FBP)	HTJS/AK/PAT/HEMA/15
Haemoglobin Analysis	Automation method using 2 different method.
Haemoglobin Analysis	1st method is capillary electrophoresis (CE) using
Haemoglobin Analysis	Sebia Capillarys Flex Piercing HPLC as
Haemoglobin Analysis	documented on HTJS/AK/PAT/HEMA/28
Haemoglobin Analysis	method is high performance liquid

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 48 of 66

Haemoglobin Analysis	chromatogram (HPLC) using Biorad Variant II as
Haemoglobin Analysis	documented on HTJS/AK/PAT/HEMA/29
Haemoglobin Analysis	Automation test using flow cytometry on Aquios
Haemoglobin Analysis	CL Flow Cytometry as documented in
Haemoglobin Analysis	HTJS/AK/PAT/HEMA/30
Phosphate (Inorganic)	Phosphomolybdate method as documented in
Phosphate (Inorganic)	CSS/LAB/WI/C/162; Atellica CH Analyzer
Troponin T	Two Monoclonal Antibodies Lateral Flow Test
Troponin T	method as documented in CSS/LAB/WI/C/013;
Troponin T	Roche Cobas h232
Full Blood Count (FBC) with 5 Part Differential for	Cell Count Using Sysmex XN 1000 Analyzer as Documented in CSS/LAB/WI/HT/015
/ Parameter:	None
PBF	Manual Microscopy Using Leishman Stain as Documented in CSS/LAB/WI/HT/022
ESR	Photometrical Rheology to Direct Measurement
ESR	Method by using iSED Alor ESR as Documented
ESR	in
ABO Blood Grouping	Manual Tube Method as Documented in
Rhesus (D) Typing	Manual Tube Method as Documented in
ABO & Rh (D) Blood Grouping	Automated method as documented in CSS/LAB/W1/BB/025 (IH-500)
Cross-matching	Manual Gel and Tube Method as Documented in
Cross-matching	CSS/LAB/WI/BB/011 and
Cross-matching	Automated method as documented in
Cross-matching	(IH500)
G6PD Screen	Fluorescence Spot Test as Documented in
Direct Antiglobulin Test	Manual Tube and Gel Method as Documented in
Direct Antiglobulin Test	and CSS/LAB/WI/BB/012
Direct Antiglobulin Test	Automated method as documented in CSS/
Direct Antiglobulin Test	(IH-500)

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 49 of 66

Indirect Antiglobulin Test	Manual Tube and Gel Method as Documented in
Indirect Antiglobulin Test	and Manual Tube Method
Indirect Antiglobulin Test	as documented in
Indirect Antiglobulin Test	Automated method as documented in
Indirect Antiglobulin Test	CSS/LAB/W1/BB/023 (IH-500)
Malaria Parasite	Manual Thin Film Method as Documented in CSS/LAB/WI/HT/019
Phosphate (Inorganic)	Phosphomolybdate method as documented in
Phosphate (Inorganic)	CSS/LAB/WI/C/162; Atellica CH Analyzer
Troponin T	Two Monoclonal Antibodies Lateral Flow Test
Troponin T	method as documented in CSS/LAB/WI/C/013;
Troponin T	Roche Cobas h232
Full Blood Count (FBC) with 5 Part Differential for	Cell Count Using Sysmex XN 1000 Analyzer as Documented in CSS/LAB/WI/HT/015
/ Parameter:	None
PBF	Manual Microscopy Using Leishman Stain as Documented in CSS/LAB/WI/HT/022
ESR	Photometrical Rheology to Direct Measurement
ESR	Method by using iSED Alor ESR as Documented
ESR	in
ABO Blood Grouping	Manual Tube Method as Documented in
Rhesus (D) Typing	Manual Tube Method as Documented in
ABO & Rh (D) Blood Grouping	Automated method as documented in CSS/LAB/W1/BB/025 (IH-500)
Cross-matching	Manual Gel and Tube Method as Documented in
Cross-matching	CSS/LAB/WI/BB/011 and
Cross-matching	Automated method as documented in (IH500)
G6PD Screen	Fluorescence Spot Test as Documented in
Direct Antiglobulin Test	Manual Tube and Gel Method as Documented in
Direct Antiglobulin Test	and CSS/LAB/WI/BB/012
Direct Antiglobulin Test	Automated method as documented in CSS/

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 50 of 66

Direct Antiglobulin Test	(IH-500)
Indirect Antiglobulin Test	Manual Tube and Gel Method as Documented in
Indirect Antiglobulin Test	and Manual Tube Method
Indirect Antiglobulin Test	as documented in
Indirect Antiglobulin Test	Automated method as documented in
Indirect Antiglobulin Test	CSS/LAB/W1/BB/023 (IH-500)
Malaria Parasite	Manual Thin Film Method as Documented in CSS/LAB/WI/HT/019
HBA1C	High Performance Liquid Chromatography (Ion
HBA1C	Exchange) Method as documented in
HBA1C	HUiTM-CLD-CDL(CP)-W-040
Complete Blood Count	None
(CBC) Parameter:	None
Haemoglobin (Hb)	Automated system- Sysmex XN-550 and XN-330
Haemoglobin (Hb)	based on SLS haemoglobin detection Method as
Haemoglobin (Hb)	documented in HUITM-CLD-CDL(HTM)-W-009
Red Cell Counts (RBC)	Automated system- Sysmex XN-550 and XN-330
Platelet Count (PLT)	based on hydrodynamic focusing direct current
Platelet Count (PLT)	detection Method as documented in HUiTM-CLD-
Platelet Count (PLT)	CDL(HTM)-W-009
Haematocrit (HCT)	Automated system - Sysmex XN-550 and XN-330
Haematocrit (HCT)	based RBC cumulative pulse height detection
Haematocrit (HCT)	Method as documented in HUITM-CLD-CDL(HTM)-
Haematocrit (HCT)	W-009
MCV, MCH, MCH	Automated system - Sysmex XN-550 and XN-330
MCV, MCH, MCH	based on calculated parameter Method as
MCV, MCH, MCH	documented in HUITM-CLD-CDL(HTM)-W-009
White Cell Count (WBC)	Automated system - Sysmex XN-550 and XN-330
and Differential counts	based on fluorescence flow cytometry using
and Differential counts	semiconductor laser Method as documented in
and Differential counts	HUiTM-CLD-CDL(HTM)-W-009

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 51 of 66

and Differential counts	Manual method using Leishman-™s or Wright-™s Stain
and Differential counts	Method as documented in
and Differential counts	W-002
Reticulocytes	Automated system- Sysmex XN-550 and XN-330
Reticulocytes	based on fluorescence flow cytometry using
Reticulocytes	semiconductor laser Method as documented in
Reticulocytes	HUITM-CLD-CDL(HTM)-W-009
Peripheral Blood Film	Manual microscopy using Leishman-™s or Wright-™s
SKIMAKREDITAS!	Stain Method as documented in HUITM-CLD-
Erythrocyte	Quick Mode method using Streck ESR Autoplus
Sedimentation Rate	Method as documented in HUITM-CLD-CDL(HTM)-
Sedimentation Rate	W-003
Glycated Haemoglobin	Boronate Affinity and High-Performance Liquid
None	Chromatography (HPLC) method using Premier
None	Hb9210 as documented in Biochemistry
None	Procedure Manual CP217
Full Blood Count (FBC)	Fluorescent flow cytometry, hydrodynamic
None	focusing and Cyanide-free SLS method
None	using Sysmex XN 1000 analyser as
None	documented in Haematology Procedure
None	Manual chapter YP037
ABO & Rh D Blood Grouping	Manual Tube Method as documented in
None	Blood Bank Procedure Manual chapter
None	BP020
Cross-matching	Column Agglutination (gel card) method
None	as documented in Blood Bank Procedure
None	Manual, chapter as documented in BP026
Direct Antiglobulin Test	Column agglutination (gel card) method
None	as documented in Blood Bank Procedure

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 52 of 66

None	Manual chapter BP085
(Glycated Hb)	Automation Bio-Rad D10 Hemoglobin A1c with
None	Bio-Rad D-10-„ø Hemoglobin Testing System as
None	documented in MTM-CP-15
ABO Blood Grouping /	Tube Method as documented in MTM-IH-06
Rh (D) Typing	None
None	Automation Microplate Method by Immuncor NEO
None	IRIS as documented in MTM-IH-27
Full Blood Count with 5	Automation by Mindray BC-5380 Auto
part differential count	Heamatology Analyser based on Electrical
None	Impedance method (WBC/BAS, RBC & PLT),
None	Colorimetric method (HGB), Flow Cytometry
None	method (WBC data (Llym%, Mon%, Eos% and
None	Neu%) & Calculation (MCV, HCT, MCH, MCHC,
None	as documented in
None	MTM-IH-18 & WI-IH-42
Malarial Parasite	Automation -" ELISA test kit using Personal Lab
None	automatic ELISA processor as documented in
None	MTM-IH-03
Blood Film Malaria	Microscopy -Thick and Thin Blood Film as
Parasites (BFMP)	documented in MTM-IH-07
None	Ion-exchange High performance liquid chromatography (HPLC) / Biorad D10 as documented in PCM-CHEM-WI003
Full blood count	Fluorescent flow cytometry, hydrodynamic
None	focusing Cyanide free SLS / Sysmex XN-1000
None	as documented in Sysmex XN Operation,
None	PCM-HAEM-WI002
Erythrocyte	Photometrical Rheology / Alcor iSED as
Sedimentation Rate	documented in Ised Erithrocyte Sedimentation

NO: SAMM 424

Page: 53 of 66

None	Rate Automated Analyzer, PCM-HAEM-
None	WI004, iSed
Differential count	Slide (Manual Method) as documented in
None	Manual Differential White Cell Count, PCM-
None	HAEM-WI021 & Peripheral Blood Film
None	Preparation, PCM-HAEM-WI019
Peripheral blood film examination	Manual microscopy as documented in Wright-™s Eosin Methylene Blue Staining, PCM-HAEM-
None	WI017, Full blood count, PCM-HAEM-WI005 &
None	Peripheral Blood Film Examination, PCM-
None	HAEM-WI020
PBF (Morphology)	Manual microscopy as documented in
None	Reporting of Peripheral Blood Film, PCM-
None	HAEM-WI002
ABO R(h) Grouping	Tube Method as documented in
None	PCM-IHAEM-WI004
Antibody Screening	Column Agglutination (gel card) as
None	documented in PCM-IHAEM-WI006
Compatibility Testing	Column Agglutination (gel card) as
None	documented in PCM-IHAEM-WI007 & PCM-
None	IHAEM-WI008
Direct Coombs Test	Column Agglutination (gel card) as
None	documented in PCM-IHAEM-WI010
DNA detection and	EBV PCR kit as documented in
DNA detection and	VZV PCR kit as documented in
PCR for Rapid Xpert HIV-1 RNA	Automated procedure using GeneXpert Dx, as
Qualitative	documented in Work Instruction A12QD011.
PCR for Meningitis Viral Panel	Manual procedure using Geneall Ribospin, as
HbA1c	Turbidimetric Inhibition Immunoassay (TINIA)
None	using Roche Cobas 6000 as documented in

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 54 of 66

None	A2QD010
Full Blood Count (FBC)	RF/DC detection using flow cytometry
None	method and SLS-haemoglobin method
None	by Sysmex XN-1000 as documented in
None	A3QD001
Erythrocyte Sedimentation Rate	Westergren method using MicroSed
(ESR)	System as documented in
Haemoglobin Electrophoresis	Capillary electrophoresis method by
(Hbel)	using Sebia Capillary 2 Flex Piercing
None	Test System as documented in
None	A3QD002, A3QT003 and A3QT006
ABO & Rh Blood	Test Tube Method / Centrifuge as Documented
Grouping	in Index: 1.0
Rh Negative Confirmation	Rh Negative Confirmation Test / Centrifuge
None	and Water Bath 37°C as Documented in
None	AF/WI.01/1.04; Index: 4.0
Malaria Parasite	ELISA -" Qualisa Malaria-,, method / Incubator
None	37 °C, Microplate washer and Reader as
None	documented in JSS/WI.03/1.01; Index: 1.0
None	Blood smear thick and thin method as
None	documented in Index: 3.0
Blood Grouping/Rh	Microtitre plate and tube method based on
None	Antigen-Antibody reaction as documented in
None	DWL/LAB/LW1/002
Malarial Parasite	Manual ELISA method as documented in
None	DWL/LAB/LW1/003/006 &
None	Blood Film Malarial Parasite as documented in
None	DWL/LAB/LW1/003/007
Malaria Antigen	Malaria ELISA Enzyme Linked Immunosorbent
Screening Test (ELISA)	Assay / ELISA Semi Automated Instrument -"

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 55 of 66

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

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 56 of 66

None	/ Automated Mindray SC120 as Documented
None	in HSJ/PAT/HEM/WI05 SLIDE REVIEW
3. Full Blood Picture	Automated blood film preparation and staining /
None	Automated Mindray SC120 as Documented in
None	HSJ/PAT/HEM/W104 FULL BLOOD PICTURE
4. Erythrocyte sedimentation rate (ESR)	Westergreen method / Automated Jokoh Smart 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

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 57 of 66

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
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

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 58 of 66

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
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

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 59 of 66

None	HA/HAEM/MRKH/CYT/WI-20v1
Fluorescence In-situ	FISH method /Thermobrite-StatSpin,Abbott Molecular
Hybridization (FISH)	/MetaSytem 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
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-,ø 22 AL
Lymphocyte	nan
Monocytes	nan
Neutrophils	nan
Eosinophils	nan
Basophils	nan
Red Blood Cell	nan
Hemoglobin	nan
Hematocrit	nan
Mean Cell	nan

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 60 of 66

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
Cyclosporin	Immunoelectrochemiluminescence/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)

NO: SAMM 424

Page: 61 of 66

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
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

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 62 of 66

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
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

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 63 of 66

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)	Impedance, 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/INT-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/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

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 64 of 66

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
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

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 65 of 66

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
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

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Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 424

Page: 66 of 66

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 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-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
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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