


## Schedule

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<b>LABORATORY LOCATION:</b> (PERMANENT LABORATORY) 	Premier Integrated Labs Sdn. Bhd. (Gleneagles Kota Kinabalu Branch) 2nd Floor, Gleneagles Kota Kinabalu Riverson@Sembulan, Block A-1, Lorong Riverson@Sembulan, 88100 Kota Kinabalu, Sabah. , 88100, SABAH MALAYSIA
<b>ACCREDITED SINCE :</b>	19 MARCH 2025
<b>FIELD(S) OF MEDICAL TESTING :</b>	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)

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<b>CENTRAL LOCATION</b>	Premier Integrated Labs Sdn. Bhd. (Gleneagles Kota Kinabalu Branch) 2nd Floor, Gleneagles Kota Kinabalu Riverson@Sembulan, Block A-1, Lorong Riverson@Sembulan, 88100 Kota Kinabalu, Sabah. , 88100, Sabah
<b>FIELD(S) OF MEDICAL TESTING :</b>	CHEMICAL PATHOLOGY, HAEMATOLOGY

**SCOPE OF MEDICAL TESTING : CHEMICAL PATHOLOGY**

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Serum / Plasma	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
	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

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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
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

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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
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

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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
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 /

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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	Immuno-turbidimetric/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
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)

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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	Immunoelctrochemiluminescence/Cobas e801 (6)
eAntigen and /	as documented electronically in Roche Cobas LINK/
eAntibody	Cobas e801
Herpes simplex 1&2	Immunoelctrochemiluminescence/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	Immunoelctrochemiluminescence/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
Mycoplasma antibody	Passive Particle agglutination/Manual assay as
Mycoplasma antibody	documented in MYC AB (GPQD/SER/SOP-16)
Cytomegalovirus IgG	Immunoelctrochemiluminescence/Cobas e801 (6)
antibody	as documented in electronically in Roche Cobas
antibody	LINK/Cobas e801
Ig E (Total)Specific IgE	Chemiluminescence, HITACHI CLA-1 (1) as
(35 specific Allergens)	documented in MAP Allergy (GPQD/SER/SOP-17)
Cyclic Citrullinated	Immunoelctrochemiluminescence Cobas e801(6) as
Peptide	documented in electronically in Roche Cobas LINK/

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(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	Immunochemiluminescence/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/
Rubella IgM	Cobas e801
Toxoplasma IgG	mmunoelectrochemiluminescence/Cobas e801 (6)
Toxoplasma IgG	as documented in electronically in Roche Cobas
Toxoplasma IgG	LINK/ Cobas e801
Toxoplasma IgM	mmunoelectrochemiluminescence/Cobas e801 (6) as
Toxoplasma IgM	documented in electronically in Roche Cobas LINK/
Toxoplasma IgM	Cobas e801
Anti - HAV IgG	mmunoelectrochemiluminescence/Cobas e801 (6) as
Anti - HAV IgG	documented in electronically in Roche Cobas LINK/
Anti - HAV IgG	Cobas e801



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Anti HAV IgM	mmunoelectrochemiluminescenc e/Cobas e801 (6) as
Anti HAV IgM	documented in electronically in Roche Cobas LINK/
Anti HAV IgM	Cobas e801
Anti HCV	mmunoelectrochemiluminescenc 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	Immunoelectrochemiluminescenc e/Cobas e411 as
AFP	documented electronically in Roche Cobas LINK/
AFP	Cobas e411
CEA	Immunoelectrochemiluminescenc e/Cobas e411 as
CEA	documented electronically in Roche Cobas LINK/
CEA	Cobas e411
PSA - Total	Immunoelectrochemiluminescenc e/Cobas e411 as
PSA - Total	documented electronically in Roche COBAS
PSA - Total	LINK/COBAS e411
Free T3	Immunoelectrochemiluminescenc e/Cobas e411 as
Free T3	documented electronically in Roche COBAS
Free T3	LINK/COBAS e411
Free T4	Immunoelectrochemiluminescenc e/Cobas e144 as
Free T4	documented electronically in Roche COBAS
Free T4	LINK/e411
TSH	Immunoelectrochemiluminescenc e/Cobas e411 as
TSH	documented electronically in Roche COBAS
TSH	LINK/COBAS e411
Total HCG	Immunoelectrochemiluminescenc e/Cobas e411 as

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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
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

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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
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

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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 deproteinization/Conas c311 as documented
Rheumatoid Factor	electronically in Roche COBAS LINK/COBAS c311
Anti HBs	Immuno-electrochemiluminescence/Cobas e601 as
Anti HBs	documented electronically in Roche COBAS
Anti HBs	LINK/COBAS e601
HbsAg	Immuno-electrochemiluminescence/Cobas e601 as
HbsAg	documented electronically in Roche COBAS
HbsAg	LINK/COBAS e601
HIV Ag/Ab Combo	Immuno-electrochemiluminescence/Cobas e601 as
(cHIV)	documented electronically in Roche COBAS
(cHIV)	LINK/COBAS e601
Anti HCV	Immuno-electrochemiluminescence/Cobas e601 as
Anti HCV	documented electronically in Roche COBAS
Anti HCV	LINK/COBAS e601
Anti -" HAV Total	Immuno-electrochemiluminescence/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

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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	Immunochemiluminescence/Cobas e601 as
Anti HBs	documented in electronically in Roche COBAS
Anti HBs	LINK/COBAS 6000
HBsAg	Immunochemiluminescence/Cobas e601 as
HBsAg	documented in electronically in Roche COBAS
HBsAg	LINK/COBAS 6000
HIV Ag/Ab	Immunochemiluminescence/Cobas e601 as
HIV Ag/Ab	documented in electronically in Roche COBAS
HIV Ag/Ab	LINK/COBAS 6000
Anti -" HAV Total	Immunochemiluminescence/Cobas e601 as
Anti -" HAV Total	documented in electronically in Roche COBAS
Anti -" HAV Total	LINK/COBAS 6000
Anti HCV	Immunochemiluminescence/Cobas e601 as
Anti HCV	documented in electronically in Roche COBAS
Anti HCV	LINK/COBAS 6000
Dengue Ab IgG/IgM	Fluorescence Immunoassay/F200 as documented in Dengue IgM/IgG SOP (GPQD/HAE/SOP-30)
Dengue NS1	Fluorescence Immunoassay/F200 as documented
Dengue NS1	in Dengue NS1 SOP (GPQD/HAE/SOP-29)
Total Immunoglobulin E (Ig E)	Fluoro Enzyme Immunoassay as
Total Immunoglobulin E (Ig E)	documented in
Total Immunoglobulin E (Ig E)	IMR/AIRC/AL/SOP/1
Specific Immunoglobulin E (Ig E)	Fluoro Enzyme Immunoassay as
Specific Immunoglobulin E (Ig E)	documented in
Specific Immunoglobulin E (Ig E)	IMR/AIRC/AL/SOP/2

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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
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

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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
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

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	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
Haematology	None	None
	nan	nan
	nan	nan
	Antibody screening	None
Immunohaematology	None	None
	None	None
	None	None
Plasma	Activated Partial	Clotting method by Sysmex CA104 as
	Thromboplastin Time	documented in Haematology Procedure Manual
	(APTT)	Chapter YP151
	Prothrombin Time (PT)	Clotting method by Sysmex CA104 as
	None	documented in Haematology Procedure Manual
	None	Chapter YP152
	INR	Photo-optical clot reaction/CS2500 (2) as documented in PT/INR SOP (GPQD/HAE/SOP-33)
	APTT	Photo-optical clot reaction/CS2500 (2) as documented in APTT SOP (GPQD/HAE/SOP-37)
	Fibrinogen	Photo-optical clot reaction/CS2500 (2) as documented
	Fibrinogen	in Fibrinogen SOP (GPQD/HAE/SOP-35)
	Lupus Anticoagulant	Photo-optical clot reaction/CS2500 (2) as documented
	Lupus Anticoagulant	in SOP (GPQD/HAE/SOP-1)
	Antithrombin III	Photo-optical clot reaction/CS2500 (2) as documented



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Antithrombin III	in Antithrombin II] GPQD/HAE/SOP-2
Protein C	Photo-optical clot reaction/CS2500 (2) as documented
Protein C	in Protein C GPQD/HAE/SOP-4
Protein S	Photo-optical clot reaction/CS2500 (2) as documented
Protein S	in Protein S GPQD/HAE/SOP-3
Factor V Leiden	Photo-optical clot reaction/CS2500 (2) as documented
Mutation	in Factor V Leiden GPQD/HAE/SOP-6
HIV-1 RNA Quantitative	Real-Time PCR/Alinity M System (1 as
HIV-1 RNA Quantitative	documented in SOP (GPQD/MOL/SOP-19
HBV DNA Quantitative	Real-Time PCR/Alinity M System (1 as
HBV DNA Quantitative	documented in SOP (GPQD/MOL/SOP-19
HCV RNA Quantitative	Real-Time PCR/Alinity M System (1 as
HCV RNA Quantitative	documented in SOP (GPQD/MOL/SOP-19
HCV RNA	Real-Time PCR/Alinity M System (1 as
HCV RNA	documented in SOP (GPQD/MOL/SOP-19
Iron	Photometry hexokinase/Cobas c311 as
Iron	documented electronically in Roche COBAS
Iron	LINK/COBAS c311
Glucose	Photometry hexokinase/Cobas c311 as
Glucose	documented electronically in Roche COBAS
Glucose	LINK/COBAS c311
INR	Clotting scattered light detection method/Sysmex
APTT	Ca-660 as documented in GPQD/HAE-SSOP-
APTT	43/CA600 Operating Procedure
Blood Group	GPQD/HAE/SOP-47 and GPQD/HAE/SOP-48
DAT	Direct agglutination/Diamed Gel- card as

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DAT	documented in GPQD/HAE/SOP-45 and
DAT	GPQD/HAE/SOP-48
Antibody Screen	Agglutination with Panel cells/ Diamed Gel-card as
Antibody Screen	documented in GPQD/HAE/SOP-53 and
Antibody Screen	GPQD/HAE/SOP-48
Cross-match	Major cross match/ Diamed Gel-card as documented
Cross-match	in GPQD/HAE/SOP-46 and GPQD/HAE/SOP-48
Glucose	Colourimetric hexokinase/Cobas c501 as =
Glucose	documented electronically in Roche COBAS
Glucose	LINK/COBAS 6000
Lactate	Colourimetry Enzymatic/Cobas c501 as
Lactate	documented electronically in Roche COBAS
Lactate	LINK/COBAS 6000
INR	Electromagnetic sensor/CA104 as documented in
INR	ST art4 SOP (GPQD/HAE/SOP-42)
APTT	Electromagnetic sensor/CA 104 as documented in
APTT	ST art4 SOP (GPQD/HAE/SOP-42)
Glucose	Spectrophotometry/Cobas c311 as documented
Glucose	electronically in Roche C311
Procalcitonin	Immunoelectrochemiluminescence/Cobas e144 as
Procalcitonin	documented electronically in Roche COBAS
INR	Clotting method-turbo densitometric photo-optical
INR	measuring principle/Sysmex CA 104 as
INR	documented in (GPQD/HAE/SOP-42)
G6PD Screen	nan
G6PD Screen	Fluorescence Immunoassay as documented in D
D-Dimer	Dimer SOP (GPQD/HAE/SOP-36)
Blood Culture	9240) fluorescent method as documented in

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Blood Culture	SL/LAB/S3.1 and BD BACTEC 9240 Manual
HIV Genotypic Resistance -"	Polymerase Chain Reaction (PCR) and
Protease and Reverse	Population-based Genome Sequencing /
Transcriptase	Eppendorf Mastercycler X50s thermal cycler
Transcriptase	as documented in
Transcriptase	IMR/IDRC/VIRO/SOP/HIV/10
HIV Genotypic Resistance -"	Polymerase Chain Reaction (PCR) and
Integrase	Population-based Genome Sequencing /
Integrase	Eppendorf Mastercycler X50s thermal cycler
Integrase	as documented in
Integrase	IMR/IDRC/VIRO/SOP/HIV/11
Homocysteine (Total)	Documented in IMR/SDC/BC/SOP-4 / Agilent 1260 HPLC
Homocysteine (Total)	with Fluorescence Detector
Carnitine (Total & Free)	Enzymatic end-point as documented in
Carnitine (Total & Free)	IMR/SDC/BC/SOP-3/ Spectrophotometer
Glycosaminoglycans	Complex with Dimethylmethylene Blue (DMB)
(GAG) Quantitation	as documented in IMR/SDC/BC/SOP-5/ Spectrophotometer
GAG Separation	High Resolution Electrophoresis as
GAG Separation	documented in IMR/SDC/BC/SOP-6/ Multiphor
GAG Separation	II Electrophoresis System
Organic Acids	Derivatisation with BSTFA as documented in
Organic Acids	IMR/SDC/BC/SOP-9/GCMS Agilent 7890B
Orotic Acids	Reverse-phase Chromatography as
Orotic Acids	Documented in IMR/SDC/BC/SOP-10/ Agilent 1200 HPLC
Orotic Acids	with Diode Array Detector

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Coagulation:	Clotting (optical) Method/Sysmex CS1600 As documented in
Prothrombin time (PT)	HSNI/PAT/HM/TPM/VER3/2019/02 HSNI/PAT/HM/AK/VER3/2019/04
Activated Partial	HSNI/PAT/HM/TPM/VER3/2019/03
Thromboplastin Time (APTT)	HSNI/PAT/HM/AK/VER3/2019/04
Ammonia	GLDH ? UV on Beckman Coulter AU5800 as documented in HS/JP/W1 (CP;07)-024 Test on Beckman Coulter AU5800
Lactate	Enzymatic LOD-POD on Beckman Coulter AU5800 as documented in HS/JP/W1 (CP;07)- 024 Test on Beckman Coulter AU 5800
Mycophenolic Acid	EMIT on Viva E (Siemens) as documented in HS/JP/W1 (CP;07)- 014 Test on VIVA E (Siemens)
Prothrombin Time (PT)	Clotting Activity HS/JP/W1(HM:08)- 007
Activated Partial Thromboplastin Time (APTT)	Clotting Activity HS/JP/W1(HM:08)- 007
Fibrinogen Estimations (FIB)	Clotting Activity HS/JP/W1(HM:08)- 007
International Normalised Ratio (INR)	Clotting Activity HS/JP/W1(HM:08)- 007
D-Dimer Quantitative	Change in turbidity of a microparticle suspension measured by photometry
Coagulation Mixing Test: APTT/PT	Clotting Activity HS/JP/W1(HM:08)- 017
Ammonia	Glutamate Dehydrogenase as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Lactate (LacticAcid)	Lactic Acid to Pyruvate (L to P) as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
PT/ INR	Mechanical clot detection
PT/ INR	Analyser: Stago Compact/ Max All methods and specifications as documented in HTPG/JP/HEM/AK-04
APTT	Mechanical clot detection

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Whole Blood	APTT	Analyser: Stago Compact/ Max All methods and specifications as documented in HTPG/JP/HEM/AK-05
	Fibrinogen	Clauss method Analyser: Stago Compact/ Max All methods and specifications as documented in HTPG/JP/HEM/AK-06
	D-Dimer	Turbidimetry Analyser: Stago Compact/ Max All methods and specifications as documented in HTPG/JP/HEM/AK-07
	Glucose (Plasma)	Hexokinase Method. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT- WI0203
	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
	Volume	nan
	Mean	nan
	Corpuscular	nan
	Hemoglobin	nan
	Concentration	nan

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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	Immunoelctrochemiluminescence/Cobas e801
Cyclosporin	(6) as documented in electronically in Cobas e801
G6PD screen	Fluorescence Method/Manual as documented in G6PD
G6PD screen	SOP (GPQD/HAE/SOP-55)
Cytomegalovirus PCR	as documented in GPQD/MOL/SOP-14
Mumps IgG & IgM	Chemiluminescence Immunoassay/Diasorin XL (2)
Mumps IgG & IgM	as documented in Operator Manual
Measles IgG & IgM	Chemiluminescence Immunoassay/Diasorin XL (2)
Measles IgG & IgM	as documented in Operator Manual
Varicella IgG & IgM	Chemiluminescence Immunoassay/Diasorin XL (2)
Varicella IgG & IgM	as documented in Operator Manual
HBA1C	DCCT/NGSP/ Roche Cobas (c501, c311) as

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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
Peripheral Blood Film (PBF)	HSNi/PAT/HM/AK/VER2/06
ABO Grouping	Manual method (tube method) As documented in HSNi/PAT/AK/TD/31

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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
Full blood Count (FBC)	Cell count using Sysmex XS 500i analyzer as documented in Haematology Procedure Manual YP036.
Full Blood Count	Method: Combination of

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

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Mean Corpuscular Hemoglobin?s Count	Aperture Impedance. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in SAS MEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/INT-W10205
Mean Corpuscular Hemoglobin Concentration?s Count	Aperture Impedance. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in SAS MEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/INT-W10205
RDW?s Count	Aperture Impedance. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
RDW?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/INT-W10205
Platelet?s Count	Aperture Impedance. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
Platelet?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/INT-W10205
Neutrophils?s Count	Aperture Impedance. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
Neutrophils?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/INT-W10205
Lymphocytes?s Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
Lymphocytes?s Count	SASMEC@IIUM/PALM/INT-W10204
Monocytes?s Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
Monocytes?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/INT-W10205
Eosinophil?s Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
Eosinophil?s Count	SASMEC@IIUM/PALM/INT-W10204
Basophils?s Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in

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Basophils?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205
NE# Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
NE# Count	SASMEC@IIUM/PALM/INT-W10204
LY# Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
LY# Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205
MO# Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
MO# Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205
EO# Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
EO# Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205
BA# Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
BA# Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205
Nucleated Red Blood Cell?s Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
Nucleated Red Blood Cell?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205
NRBC# Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
NRBC# Count	SASMEC@IIUM/PALM/INT-W10204
MDW?s Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
MDW?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205

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Retic?s Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
Retic?s Count	SASMEC@IIUM/PALM/INT-W10204
Glucose-6-phosphate dehydrogenase deficiency (G6PD) screening	Spot fluorescence test method as documented in; SASMEC@IIUM/PALM/HAE-WP01 SASMEC@IIUM/PALM/HAE-W110102
Full blood picture with clinical interpretation	Slide preparation and routine staining: (Automated) as documented in; SASMEC@IIUM/PALM/HAE-W10101/W10105 Haematology Slide Stainer Cytocentrifuge User's Manual
Haemoglobin analysis (HbA, HbA2, HbF, Hb variant)	Quantitation of HbA, HbA2, HbF, Hb variant: High Performance Liquid Chromatography (HPLC) method as documented in SASMEC@IIUM/PALM/HAE-WP02 SASMEC@IIUM/PALM/HAE-W110203/ BioRad Variant II Haemoglobin Testing System User?s Manual
Haemoglobin analysis (HbA, HbA2, HbF, Hb variant)	Capillary?s electrophoresis (CE) method as documented in SASMEC@IIUM/PALM/HAE-WP02 SASMEC@IIUM/PALM/HAE-W10202/ Sebia Capillarys 2 Flex Piercing User?s Manual
Haemoglobin analysis (HbA, HbA2, HbF, Hb variant)	Hb H inclusion bodies
Haemoglobin analysis (HbA, HbA2, HbF, Hb variant)	Specimen preparation and staining (manual) as documented in SASMEC@IIUM/PALM/HAE-
Haemoglobin analysis (HbA, HbA2, HbF, Hb variant)	Blood cell morphology; Slide preparation and routine staining: (Automated) as documented in SASMEC@IIUM/PALM/HAE-W110101/ Haematology Slide Stainer Cytocentrifuge User's Manual

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