


## Schedule

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<b>LABORATORY LOCATION:</b> (PERMANENT LABORATORY) 	BSM Premier Pathology (M) Sdn. Bhd. Wisma BSM, No. 28-3, Jalan Kenari 1, Bandar Puchong Jaya, 47170 Puchong, Selangor. , 47170, SELANGOR MALAYSIA
<b>ACCREDITED SINCE :</b>	19 MARCH 2025
<b>FIELD(S) OF MEDICAL TESTING :</b>	CHEMICAL PATHOLOGY HAEMATOLOGY MEDICAL MICROBIOLOGY

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

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

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<b>CENTRAL LOCATION</b>	BSM Premier Pathology (M) Sdn. Bhd. Wisma BSM, No. 28-3, Jalan Kenari 1, Bandar Puchong Jaya, 47170 Puchong, Selangor. , 47170, Selangor
<b>FIELD(S) OF MEDICAL TESTING :</b>	CHEMICAL PATHOLOGY, HAEMATOLOGYMEDICAL MICROBIOLOGY

**SCOPE OF MEDICAL TESTING : CHEMICAL PATHOLOGY**

Specimen Tested	Type of Test/ Properties Measured/	Test Methods,Specifications/ Equipment/Techniques Used
Serum/plasma	Electrolytes	GBLYTE ELECTROLYTE ANALYZER
	Sodium (Na) e	nan
	Potassium (K) e	nan
	Chloride (Cl) e	nan
	Kidney Function Test	SYSMEX BX3010
	Urea e	nan
	Creatinine e	nan
	Calcium e	nan
	Phosphate e	nan
	Uric Acid e	nan
	Glycemic Index	nan
	Glucose e	nan
	Hexokinase	nan
	Liver Function Test	nan
	Alanine e	nan
	Transaminase	nan
	(ALT)	nan
	Aspartate	nan
	Transaminase	nan
	(AST)	nan
	Total protein	nan
	(TP)	nan
	Albumin	nan
	Total Bilirubin	nan
	Alkaline	nan
	Phosphate	nan
	Gamma	nan
	Glutamyl	nan
	Transferase	nan
	(GGT)	nan
	Lipid Profile	nan
	Total e	nan
	Cholesterol	nan
	High Density	nan

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Lipoprotein	nan
Low Density	nan
Lipoprotein	nan
Triglycerides	nan
BETA HCG	Fully automated immunoassay, COBAS E411
Anti-parasitic antibody levels:	nan
Amoebiasis IgG	Enzyme-Linked Immunosorbent Assay /
Amoebiasis IgG	BIOTEK ELISA Machine Method as documented in IMR/IDRC/PST/SOP/1-4
Syphilis Screening	Carbon Antigen Particle Agglutination method as documented in DS/LAB/LW 1/002
HbsAg	Manual ELISA method as documented in DS/LAB/LW 1/002
HIV (1&II) Ab ELISA	Manual ELISA method as documented in DS/LAB/LW 1/002
Malaria Parasite	Manual ELISA method as documented in DS/LAB/LW 1/002
Alanine Transaminase (ALT)	Enzymatic (NADH without P5P) as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Albumin (AlbuminBCP)	Colorimetric (Bromocresol Purple) as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Alkaline Phosphatase (AlkP)	Para nitrophenyl phosphate as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Amylase	Enzymatic (CNPG3 Substrate) as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Aspartate Transaminase (AST)	Enzymatic (NADH without P5P) as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Calcium	Arsenazo III as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Chloride (Cl-C)	Ion-selective electrode diluted (ISE Indirect) as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)

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Cholesterol (Chol)	Enzymatic as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
C-Reactive Protein (CRP48)	Immunoturbidimetric as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Creatinine	Kinetic Alkaline Picrate as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Creatinine Kinase (CK)	NAC (N-Acetyl-L-Cysteine) as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Direct Bilirubin (Bili D)	Diazo Reaction as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Glucose (Serum/Plasma)	Enzymatic (Hexokinase/G-6-PDH) as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
High Density Lipoprotein (Ultra HDL)	Accelerator Selecting Detergent as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Lactate Dehydrogenase (LDH)	Lactate to Pyruvate (L to P) as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Magnesium	Enzymatic as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Phosphorus	Phosphomolybdate as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Potassium (K-C)	Ion-selective electrode diluted (ISE Indirect) as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)

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	Sodium (Na-C)	Ion-selective electrode diluted (ISE Indirect) as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
	Total Bilirubin (Bili Total)	Diazonium salt as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
	Total Protein (Total Prot)	Biuret as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
	Triglycerides (Trig)	Glycerol Phosphate Oxidase (GPO) as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
	Urea	Urease as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
	Uric acid	Uricase as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Urine	Cannabinoids drug test	Dipstick
	Morphine drug test	Dipstick
	Urine Full Examination (FEME)	Analyzer ACON MISSION U-500 nan
	Urine Pregnancy Test	HCG Rapid Test Device
	Urine Biochemistry -"	Immunochromatographic Principle (Dipstick) /
	Glucose & Albumin	Manual method as documented in Q
	Glucose & Albumin	LAB_SOP_08
	Urine Pregnancy Test	Rapid Chromatographic Immunoassay / Visual
	Urine Pregnancy Test	Observation of Strip Test as documented in Q
	Urine Pregnancy Test	LAB_SOP_11
	Urine Drugs -" Morphine and Cannabinoids	Immunochromatographic / Visual Observation of strip test as documented in Q LAB_SOP_09
	and Cannabinoids	(MORPHINE) and Q LAB_SOP_10
	and Cannabinoids	(CANNABINOIDS)
	Benzodiazepines	Rapid Chromatographic Competitive Binding
	Benzodiazepines	mmunoassay Method/Manual as documented in
	Benzodiazepines	GPQD/BI/SOP-21

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Barbiturates	Rapid Chromatographic Competitive Binding
Barbiturates	Immunoassay Method/Manual as documented in
Barbiturates	GPQD/BI/SOP-21
Cocaine	Rapid Chromatographic Competitive Binding
Cocaine	Immunoassay Method/Manual as documented in
Cocaine	GPQD/BI/SOP-21
Propoxyphene	Rapid Chromatographic Competitive Binding
Propoxyphene	Immunoassay Method/Manual as documented in
Propoxyphene	GPQD/BI/SOP-21
Amphetamines	Kinetic interaction of microparticles in a
Amphetamines	solution/Cobas c502 as documented electronically
Amphetamines	in Roche Cobas c502
Cannabinoids	Kinetic interaction of microparticles in a
Cannabinoids	solution/Cobas c502 (4) documented as
Cannabinoids	electronically in Roche Cobas c502
Opiates	Kinetic interaction of microparticles in a
Opiates	solution/Cobas c502 (4) documented as
Opiates	electronically in Roche Cobas c502
Microalbumin	Immunoturbidimetric/Cobas c502 as documented
Microalbumin	electronically in Roche Cobas LINK/Cobas c502
Phencyclidine	Rapid Chromatographic Competitive Binding
Phencyclidine	Immunoassay Method/Manual as documented in
Phencyclidine	GPQD/BI/SOP-21
Total Protein	Turbidimetric (Benzethonium chloride)/Cobas c502
Total Protein	(4) documented electronically in Roche Cobas LINK/
Total Protein	Cobas c702
Urine Pregnancy Test	Rapid Chromatographic immunoassay/Manual
Urine Pregnancy Test	as documented in Processing Urine Pregnancy
Urine Pregnancy Test	Test (GPQD/MIC/SOP-33)

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Urine Culture and	Conventional method as documented in Urine
Sensitivity	Culture -" (GPQD/MIC/SOP-56)
Sensitivity	Culture by Laser Nephelometry Automated by
Sensitivity	Analyzer Alfred 60 (1) (GPQD/MIC/SOP-102)
Cannabinoids	Rapid competitive binding
Cannabinoids	Immunochromatography/Manual as documented in
Cannabinoids	GPQD/BI/SOP-4
Opiates	Rapid competitive binding
Opiates	Immunochromatography/Manual as documented in
Opiates	GPQD/BI-SOP-4
FEME	Urine dipstick on Roche Cobas U411 as documented
Dipstick (chemistry)	electronically in Roche COBAS LINK/COBAS U411
Microscopy	and microscopy based on manual method as
Microscopy	documented in GPQD/MIC/SOP-12,
Microscopy	GPQD/MIC/SOP-43, GPQD/MIC/SOP-58
Urine pregnancy Test	Rapid Chromatographic Immunoassay/ManualTest
Urine pregnancy Test	strip based on as documented in GPQD/MIC/SOP-
Urine pregnancy Test	11
Culture and Sensitivity	Disc diffusion susceptibility method as documented
Culture and Sensitivity	in GPQD/MIC/SOP-83, GPQD/MIC/WI-5
Bacterial Identification	FCommerical Kits documented in as
Bacterial Identification	GPQD/MIC/IS-3
Bacterial Identification	Test Identification with API System as documented
Bacterial Identification	in GPQD/MIC/SOP-28
Staining Techniques	Manual method as documented in GPQD/MIC/SOP-
Gram Stain	48
FEME	Urine dipstick and microscopy based on manual
FEME	method as documented in GPQD/MIC/SOP-12,
FEME	GPQD/MIC/SOP-43, GPQD/MIC/SOP-58
Malarial parasite	Microscopy as documented in GPQD/HAE/SOP-

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nan	Agilent 1260 HPLC with Fluorescence
nan	Detector
Culture & Sensitivity Testing	Manual Method As Documented in HSNI/PAT/MB/AK-12
Urinalysis	Dipstick on IRICELL iChem VELOCITY as documented in
Urinalysis	HS/JP/W1 (CP;07)-016 Urine Full Examination on IRICELL iChem
Urinalysis	VELOCITY Analyzer
Urinalysis	Sediment Urine microscopy as documented in HS/JP/W1 (CP; 07)- 017 Urine Full Examination on Iris lo-
Urinalysis	200 SPRINTAutomated Urine
Urinalysis	Microscopic Analyser
Urine Pregnancy Test	Immunochromatographic Test Kit as documented in HS/JP/W1
Urine Pregnancy Test	(CP;07)-025 Urine One Step Pregnancy Test
URINE DRUG OPIATE ASSAY (RAPID TEST)	Rapid visual Immunoassay as. documented in DS/LAB/LW 1/003
URINE DRUG THC ASSAY (RAPID TEST)	Rapid visual Immunoassay as. documented in DS/LAB/LW 1/003
Urine Pregnancy Test (HCG Rapid Test Strip)	Rapid test strip method by visual interpretation as documented in DS/LAB/LW 1/003
UFEME	Test strip method using DiaLab Urine Analyser based on reagent strip method and microscopic method as documented in DS/LAB/LW 1/003

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Culture & Sensitivity	Semi Quantitative Using Dip Strips As documented in HTPG/JP/MIC/AK-05, HTPG/JP/MIC/AK-24, HTPG/JP/MIC/AK-29 and HTPG/JP/MIC/AK-32
Creatinine	Picrate method as documented in LWICP11
Urine Protein	Architect ci8200 based on Benzethonium Chloride method as documented in LWI CP47
Microalbumin	Architect ci8200 based on the Turbidimetric / Immunoturbidimetric method as documented in LWI-CP36
Microscopy ? Gram Stain	Gram staining method as documented in SASMEC@IIUM/ PALM/MIC-WI1313
Culture, identification and Sensitivity	Culture, identification and Sensitivity methods as documented in; SASMEC@IIUM/ PALM/MIC-W10302 SASMEC@IIUM/ PALM/MIC-W10202 SASMEC@IIUM/ PALM/MIC-W10314 SASMEC@IIUM/ PALM/MIC-W10315 SASMEC@IIUM/ PALM/MIC-W10205

**SCOPE OF MEDICAL TESTING : HAEMATOLOGY**

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Whole Blood	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

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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	Immuno-electrochemiluminescence/Cobas e801
Cyclosporin	(6) as documented in electronically in Cobas e801
G6PD screen	Fluorescence Method/Manual as documented in G6PD
G6PD screen	SOP (GPQD/HAE/SOP-55)
Cytomegalovirus PCR	as documented in GPQD/MOL/SOP-14
Mumps IgG & IgM	Chemiluminescence Immunoassay/Diasorin XL (2)
Mumps IgG & IgM	as documented in Operator Manual
Measles IgG & IgM	Chemiluminescence Immunoassay/Diasorin XL (2)
Measles IgG & IgM	as documented in Operator Manual
Varicella IgG & IgM	Chemiluminescence Immunoassay/Diasorin XL (2)
Varicella IgG & IgM	as documented in Operator Manual

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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
Peripheral Blood Film (PBF)	HSNi/PAT/HM/AK/VER2/06

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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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Full blood Count (FBC)	Cell count using Sysmex XS 500i analyzer as documented in Haematology Procedure Manual YP036.
Full Blood Count (5-part hematology analyser)	Method: Combination of Impedence, SLS Hb, Flowcytometry, and calculation
(5-part hematology analyser)	Analyser: Sysmex XN-1000
(5-part hematology analyser)	All methods and specifications as documented in HTPG/JP/HEM/AK-01
(5-part hematology analyser)	Manual Differential count as documented in
(5-part hematology analyser)	HTPG/JP/HEM/AK-11
Reticulocyte count	Flowcytometry method Analyser: Sysmex XN-1000 All methods and specifications as documented in HTPG/JP/HEM/AK-01
Full Blood Picture	Manual blood smear and staining method using Leishman stain All methods and specifications as documented in HTPG/JP/HEM/AK-10 & AK-12
WBC?s Count	Aperture Impedance. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
WBC?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/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

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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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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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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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**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY**

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

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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
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	Immuno-electrochemiluminescence/Cobas e801 (6)
eAntigen and /	as documented electronically in Roche Cobas LINK/
eAntibody	Cobas e801
Herpes simplex 1&2	Immuno-electrochemiluminescence/Cobas e801 (6)
IgG	as documented electronically in Roche Cobas LINK/
IgG	Cobas e801
Herpes simplex 1&2	Chemiluminescence Immunoassay/Diasorin XL (2)

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IgM	as documented in Operator Manual
Cytomegalovirus IgM	Immuno-electrochemiluminescence/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 documented in MYC AB (GPQD/SER/SOP-16)
Mycoplasma antibody	documented in MYC AB (GPQD/SER/SOP-16)
Cytomegalovirus IgG	Immuno-electrochemiluminescence/Cobas e801 (6)
antibody	as documented in electronically in Roche Cobas
antibody	LINK/Cobas e801
Ig E (Total) Specific IgE	Chemiluminescence, HITACHI CLA-1 (1) as
(35 specific Allergens)	documented in MAP Allergy (GPQD/SER/SOP-17)
Cyclic Citrullinated	Immuno-electrochemiluminescence Cobas e801 (6) as
Peptide	documented in electronically in Roche Cobas LINK/
(CCP Antibodies)	Cobas e801
Chikungunya IgM	Rapid Chromatographic Immunoassay/Manual as
Chikungunya IgM	documented in CKM Ab (GPQD/SER/SOP-7)
Anti HBc IgM	Immuno-electrochemiluminescence/Cobas e801 (6) as
Anti HBc IgM	documented in electronically in Roche Cobas LINK/
Anti HBc IgM	Cobas e801
Anti HBc Total	Immuno-electrochemiluminescence/Cobas e801 (6) as
Anti HBc Total	documented in electronically in Roche Cobas LINK/
Anti HBc Total	Cobas e801
Anti HBs	Immuno-electrochemiluminescence/Cobas e801 (6) as
Anti HBs	documented in electronically in Roche Cobas LINK/
Anti HBs	Cobas e801

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HbsAg	mmunoelectrochemiluminescenc e/Cobas e801 (6) as
HbsAg	documented in electronically in Roche Cobas
HbsAg	LINK/Cobas e801
Rubella IgG	Immunoelectrochemiluminescenc e/Cobas e801(6) as
Rubella IgG	documented in electronically in Roche Cobas LINK/
Rubella IgG	Cobas e801
Rubella IgM	mmunoelectrochemiluminescenc e/e801 (6) as
Rubella IgM	documented in electronically in Roche Cobas LINK/
Rubella IgM	Cobas e801
Toxoplasma IgG	mmunoelectrochemiluminescenc e/Cobas e801 (6)
Toxoplasma IgG	as documented in electronically in Roche Cobas
Toxoplasma IgG	LINK/ Cobas e801
Toxoplasma IgM	mmunoelectrochemiluminescenc e/Cobas e801 (6) as
Toxoplasma IgM	documented in electronically in Roche Cobas LINK/
Toxoplasma IgM	Cobas e801
Anti - HAV IgG	mmunoelectrochemiluminescenc e/Cobas e801 (6) as
Anti - HAV IgG	documented in electronically in Roche Cobas LINK/
Anti - HAV IgG	Cobas e801
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

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AFP	documented electronically in Roche Cobas LINK/
AFP	Cobas e411
CEA	Immunochemiluminometric assay/Cobas e411 as
CEA	documented electronically in Roche Cobas LINK/
CEA	Cobas e411
PSA - Total	Immunochemiluminometric assay/Cobas e411 as
PSA - Total	documented electronically in Roche COBAS
PSA - Total	LINK/COBAS e411
Free T3	Immunochemiluminometric assay/Cobas e411 as
Free T3	documented electronically in Roche COBAS
Free T3	LINK/COBAS e411
Free T4	Immunochemiluminometric assay/Cobas e144 as
Free T4	documented electronically in Roche COBAS
Free T4	LINK/e411
TSH	Immunochemiluminometric assay/Cobas e411 as
TSH	documented electronically in Roche COBAS
TSH	LINK/COBAS e411
Total HCG	Immunochemiluminometric assay/Cobas e411 as
Total HCG	documented electronically in Roche COBAS
Total HCG	LINK/COBAS e411
Alanine	Colourimetry - Tris Buffer (IFCC w/o pyridoxal
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

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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
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



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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
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	Immunoelectrochemiluminescence/Cobas e601 as
Anti HBs	documented electronically in Roche COBAS

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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
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

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HIV Ag/Ab	Immunochemiluminometric assay/Cobas e601 as
HIV Ag/Ab	documented in electronically in Roche COBAS
HIV Ag/Ab	LINK/COBAS 6000
Anti -" HAV Total	Immunochemiluminometric assay/Cobas e601 as
Anti -" HAV Total	documented in electronically in Roche COBAS
Anti -" HAV Total	LINK/COBAS 6000
Anti HCV	Immunochemiluminometric assay/Cobas e601 as
Anti HCV	documented in electronically in Roche COBAS
Anti HCV	LINK/COBAS 6000
Dengue Ab IgG/IgM	Fluorescence Immunoassay/F200 as documented in Dengue IgM/IgG SOP (GPQD/HAE/SOP-30)
Dengue NS1	Fluorescence Immunoassay/F200 as documented
Dengue NS1	in Dengue NS1 SOP (GPQD/HAE/SOP-29)
Total Immunoglobulin E (Ig E)	Fluoro Enzyme Immunoassay as
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
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

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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
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

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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
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

**NOTE :**