


Schedule

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LABORATORY LOCATION: (PERMANENT LABORATORY) 	Dunia Wellness & Laboratories Sdn. Bhd. 3-0, Ground Floor, Jalan SM 1, Taman Sunway Batu Caves, 68100 Batu Caves, Selangor. , 68100, SELANGOR MALAYSIA
ACCREDITED SINCE :	19 MARCH 2025
FIELD(S) OF MEDICAL TESTING :	CHEMICAL PATHOLOGY HAEMATOLOGY MEDICAL MICROBIOLOGY

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

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

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CENTRAL LOCATION	Dunia Wellness & Laboratories Sdn. Bhd. 3-0, Ground Floor, Jalan SM 1, Taman Sunway Batu Caves, 68100 Batu Caves, Selangor. , 68100, Selangor
FIELD(S) OF MEDICAL TESTING :	CHEMICAL PATHOLOGY, HAEMATOLOGYMEDICAL MICROBIOLOGY

SCOPE OF MEDICAL TESTING : CHEMICAL PATHOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods,Specifications/ Equipment/Techniques Used
Serum	Beta HCG	Access Immunoassay Systems based on
	None	chemiluminescent immunoassay principles /
	None	Access 2 Immunoassay System / as documented
	None	in DWL/LAB/LW1/001/011
	Serum Beta HCG	Electrochemiluminescence immunoassay
	None	(ECLIA) using Roche Cobas Pro as
	None	documented in PL/WI/CP-02: Index 16.0
	Syphilis Screening	RPR Carbon Antigen contains microparticulate
	None	carbon as documented in PL/WI/MIC-04: Index
	None	6.0; RPR Carbon-Lorne
	Syphilis Confirmation	Serodia Treponema Pallidum Particle
	None	Agglutination Method as documented in
	None	PL/WI/MIC-04; Index 3.0
	Hepatitis B Surface	ELISA method as documented in PL/W11/VIR-05;
	Antigen (HBSAG)	Index 2.0; HBSAG ELISA (Wantai) and 7.0;
	None	Automated Liquid Handling System
	None	Electrochemiluminescence immunoassay
	None	(ECLIA) using Roche Cobas Pro as documented
	None	in PL/WI/VIR-05: Index 9.0

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Human	ELISA method as documented in PL/WI/VIR-05;
Immunodeficiency Virus	Index 1.0; HIV Elisa (Wantai) and 7.0;
(HIV Antibody)	Automated Liquid Handling System
None	Electrochemiluminescence immunoassay
None	(ECLIA) using Roche Cobas Pro as documented
None	in Index 8.0
Enzyme Immunoassay	Electrochemiluminescence immunoassay
None	(ECLIA) method/ Cobas e402 as documented
None	in
HIV test	HSJ/PAT/MM/SRMWI 11
Hepatitis B surface	HSJ/PAT/MM/SRIW1 12
Antigen Test	None
Hepatitis B surface	HSJ/PAT/MM/SRIW1 14
Antibody Test	None
Hepatitis C Antibody Test	HSJ/PAT/MM/SRIW1 13
Manual Test	None
HIV Particle	Particle agglutination method as documented
Agglutination 1 and 2	in 16
Mix	None
Rapid Plasma Reagin	Flocculation method as documented in
(RPR)	HSJ/PAT/MM/SRIW1 19
Treponemal Pallidum	Particle agglutination method as documented
Particle Agglutination	in 09
(TPPA)	None
PSA	MMUNOCHEMILUMINOMETRIC / Abbott Alinity Analyzer
PSA	Document Quality HSBAS/PAT/INT/TPM/29
Anti-HCV	Automation CMIA- Architect analyzer
HIV Ag/Ab	None
Anti-HIV PA	Automation CMIA- Architect analyzer
HBsAg	None
Toxoplasma IgG /IgM	Quality Document
CMV IgG / IgM	1 HIV 1 & 2 Mix (Particles Agglutination)
Rubella IgG / IgM	HSBAS/PAT/MIK/SER/TM/01)
HAV IgM	2. Architect System for Infectious Disease

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EBV VCA IgG / IgM	screening (HSBAS/PAT/MIK/SER/TM/14)
RPR	Manual test
RPR	Quality Document
TPPA	Manual test
TPPA	Quality Document
TPPA	HSBAS/PAT/MIK/SER/TM04
Mycoplasma Antibody	Manual test
Mycoplasma Antibody	Quality Document
Mycoplasma Antibody	HSBAS/PAT/MIK/SER/TM05
Total cholesterol	Cholesterol oxidase / Beckman Coulter AU480
Total cholesterol	Chemistry Analyser as documented in
Creatinine	Jaffe method (Alkaline picrate) / Beckman
Creatinine	Coulter AU480 Chemistry Analyser as
Creatinine	documented in MKAJB- D-02-WI01
Glucose	Hexokinase / Beckman Coulter AU480
Glucose	Chemistry Analyser as documented in MKAJB-
Uric Acid	Uricase / Beckman Coulter AU480 Chemistry
Uric Acid	Analyser as documented in MKAJB-D-02-WI01
Urea	Urease / GLDH / Beckman Coulter AU480
Urea	Chemistry Analyser as documented in MKAJB-
Cholinesterase	Butyrylthiocholine / Beckman Coulter AU480
Cholinesterase	Chemistry Analyser as documented in MKAJB-
HDL	Immunological inhibition / Beckman Coulter
HDL	AU480 Chemistry Analyser as documented in
HDL	MKAJB-D-02-WI01
Triglycerides	Enzymatic, end point / Beckman Coulter
Triglycerides	AU480 Chemistry Analyser as documented in
Triglycerides	MKAJB-D-02-WI01
Hormon:	Chemiluminescent Microparticle Immunoassay
TSH	(CMIA) by using analyser architect i1000sr
FreeT4	(MKAJB-D-02-WI02)

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Urea Nitrogen	MKAKB/BP/BCM/SOP-22 Determination of Routine
Urea Nitrogen	Chemistry Tests on Siemens Dimension Xpand
Creatinine	Alkaline picrate kinetic method by Siemens Dimension
Creatinine	Xpand Plus Chemistry Analyser as documented in
Creatinine	MKAKB/BP/BCM/SOP-22 Determination of Routine
Creatinine	Chemistry Tests on Siemens Dimension Xpand
Uric Acid	Uricase method by Siemens Dimension Xpand Plus
Uric Acid	Chemistry Analyser documented in as
Uric Acid	MKAKB/BP/BCM/SOP-22 Determination of Routine
Uric Acid	Chemistry Tests on Siemens Dimension Xpand
Sodium	Indirect ISE method by Siemens Dimension Xpand
Sodium	Plus Chemistry Analyser documented in as
Sodium	MKAKB/BP/BCM/SOP-22 Determination of Routine
Sodium	Chemistry Tests on Siemens Dimension Xpand
Potassium	Indirect ISE method by Siemens Dimension Xpand
Potassium	Plus Chemistry Analyser documented in as
Potassium	MKAKB/BP/BCM/SOP-22 Determination of Routine
Potassium	Chemistry Tests on Siemens Dimension Xpand
Chloride	Indirect ISE method by Siemens Dimension Xpand
Chloride	Plus Chemistry Analyser documented in as
Chloride	MKAKB/BP/BCM/SOP-22 Determination of Routine
Chloride	Chemistry Tests on Siemens Dimension Xpand
Alkaline Phosphatase	PNPP-AMP Buffer method by Siemens Dimension
Alkaline Phosphatase	Chemistry Tests on Siemens Dimension Xpand
Alanine	LDH-NADH method by Siemens Dimension Xpand

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Aminotransferase	Plus Chemistry Analyser documented in as
Aminotransferase	MKAKB/BP/BCM/SOP-22 Determination of Routine
Aminotransferase	Chemistry Tests on Siemens Dimension Xpand
Aspartate	P5P-LDH method by Siemens Dimension Xpand Plus
Aminotransferase	Chemistry Analyser documented in as
Aminotransferase	MKAKB/BP/BCM/SOP-22 Determination of Routine
Aminotransferase	Chemistry Tests on Siemens Dimension Xpand
Total Bilirubin	Diazotized sulfanilic acid method by Siemens
Total Bilirubin	Dimension Xpand Plus Chemistry Analyser as
Total Bilirubin	documented in
Total Bilirubin	MKAKB/BP/BCM/SOP-22
Total Bilirubin	Determination of Routine
Total Bilirubin	Chemistry Tests on Siemens
Total Bilirubin	Dimension Xpand
Total Protein	Biuret method by Siemens Dimension Xpand Plus
Total Protein	Chemistry Analyser documented in as
Total Protein	MKAKB/BP/BCM/SOP-22 Determination of Routine
Total Protein	Chemistry Tests on Siemens Dimension Xpand
Albumin	Bromocresol purple method by Siemens Dimension
Albumin	Xpand Plus Chemistry Analyser as documented in
Albumin	MKAKB/BP/BCM/SOP-22 Determination of Routine
Albumin	Chemistry Tests on Siemens Dimension Xpand
Cholesterol	Cholesterol oxidase, esterase & peroxidase method
Cholesterol	by Siemens Dimension Xpand Plus Chemistry
Cholesterol	Analyzer as documented in
Cholesterol	MKAKB/BP/BCM/SOP-22
Cholesterol	Determination of Routine
Cholesterol	Chemistry Tests on
Cholesterol	Siemens Dimension Xpand
HDL-Cholesterol	Direct measure polyethylene glycol (PEG) method

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HDL-Cholesterol	by Siemens Dimension Xpand Plus Chemistry
HDL-Cholesterol	Analyzer as documented in MKAKB/BP/BCM/SOP-
HDL-Cholesterol	22 Determination of Routine Chemistry Tests on
HDL-Cholesterol	Siemens Dimension Xpand
Triglycerides	Enzymatic (LPL/GPO/POD) endpoint method by
Triglycerides	Siemens Dimension Xpand Plus Chemistry Analyzer
Triglycerides	documented in MKAKB/BP/BCM/SOP-22 as
Triglycerides	Determination of Routine Chemistry Tests on
Triglycerides	Siemens Dimension Xpand
Direct Bilirubin	Diazotized sulfanilic acid method by Siemens
Direct Bilirubin	Dimension Xpand Plus Chemistry Analyzer as
Direct Bilirubin	documented in MKAKB/BP/BCM/SOP-22
Direct Bilirubin	Determination of Routine Chemistry Tests on
Direct Bilirubin	Siemens Dimension Xpand
Phosphate	Phosphomolybdate method by Siemens Dimension
Phosphate	Xpand Plus Chemistry Analyzer as documented in
Phosphate	MKAKB/BP/BCM/SOP-22 Determination of Routine
Phosphate	Chemistry Tests on Siemens Dimension Xpand
Calcium	o-cresolphthaleincomplexone (OCPC) method by
Calcium	Siemens Dimension Xpand Plus Chemistry Analyzer
Calcium	documented in MKAKB/BP/BCM/SOP-22 as
Calcium	Determination of Routine Chemistry Tests on
Calcium	Siemens Dimension Xpand
Cholinesterase	Butyrylthiocholine by Siemens Dimension Xpand
Cholinesterase	Plus Chemistry Analyzer as documented in
Cholinesterase	MKAKB/BP/BCM/SOP-22 Determination of Routine
Cholinesterase	Chemistry Tests on Siemens Dimension Xpand

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Micro Agglutination	Detection of Total Anti-leptospiral antibody as
Test for Leptospiral	documented in MKAKB/BP/MIC/SOP-12
Hepatitis B Surface	Chemiluminescent Microparticle Immunoassay
Antigen (HBs-Ag)	(CMIA) / Abbott Architect System as Documented in
Antigen (HBs-Ag)	MKAKB/BP/IMN/SOP-01
Hepatitis B Surface	Chemiluminescent Microparticle
Antibody (Anti-HBs)	Immunoassay (CMIA) / Abbott Architect
Antibody (Anti-HBs)	System as Documented in
Antibody (Anti-HBs)	MKAKB/BP/IMN/SOP-02
Hepatitis C Antibody	Chemiluminescent Microparticle
(Anti-HCV)	Immunoassay (CMIA) / Abbott Architect
(Anti-HCV)	System as Documented in
(Anti-HCV)	MKAKB/BP/IMN/SOP-03
HIV Antigen and	Chemiluminescent Microparticle
Antibody	Immunoassay (CMIA) / Abbott Architect
Antibody	System as Documented in
Antibody	MKAKB/BP/IMN/SOP-05
Particle Agglutination	Particle Agglutination Method / Manual
Antibody to HIV 1	as Documented in MKAKB/BP/IMN/SOP-08
and/or HIV 2	None
Leptospira Rapid Test	Rapid Latex Particle Agglutination Test /
Leptospira Rapid Test	Manual as Documented in
Leptospira Rapid Test	MKAKB/BP/SER/SOP-02
Qualitative Detection	Serology Test as documented in
of Antibody Virion	MKAKB/BP/SER/SOP-14 Qualitative
Serion Measles IgM	Detection of Antibody Virion Serion Measles
Serion Measles IgM	IgM
Qualitative Detection	Serology Test as documented in
of Antibody Rubella	MKAKB/BP/SER/SOP-15 Qualitative
IgM	Detection of Antibody Rubella (IgM)
IgM	EUROIMMUN® ELISA
Total Cholesterol Triglyceride	Automation / Cobas 6000 analyzer series module C501 as documented in MKAI/SP/BKM/WI-01
HDL Cholesterol	None
LDL Cholesterol	None

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Total Protein	None
Albumin	None
Globulin	None
Ratio	None
Total Bilirubin	None
Direct Bilirubin	None
Alkaline Phosphatase (ALP)	None
Alanine Aminotransferase (ALT) Aspartate Aminotransferase (AST)	Automation / Cobas 6000 analyzer series module C501 as documented in MKA/SP/BKM/WI-01
Urea Nitrogen	None
Creatinine	None
Sodium	None
Potassium	None
Chloride	None
Calcium	None
Phosphorus	None
Uric Acid	None
Free T4 TSH	Automation / Cobas 6000 analyzer series module E601 as documented in MKA/SP/BKM/WI-02
Dengue typing	Molecular Detection / RT qPCR / As
Dengue typing	documented in MKA/SP/MOL/WI-03
Tacrolimus	ECLIA method/ Cobas e801 (6) as documented
Tacrolimus	electronically in Roche Cobas LINK/Cobas e801
AFP (Down	ECLIA method/Cobas e801 (6) as documented
Syndromeftriple test)	electronically in Roche Cobas LINK/Cobas e801
Carbamazepine	Homogenous microparticle agglutination
Carbamazepine	immunoassay/Cobas c502 (4) as documented
Carbamazepine	electronically in Roche Cobas LINK/Cobas c502
Digoxin	Kinetic interaction of microparticles (KIMS)/Cobas
Digoxin	c502 (4) as documented electronically in Roche
Digoxin	Cobas LINK/ Cobas c502
Gentamycin	Kinetic interaction of microparticles in a solution/
Gentamycin	COBAS c502(4) as documented electronically in
Gentamycin	Roche COBAS c502

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Phenobarbital	Kinetic interaction of microparticles (KIMS)/Cobas
Phenobarbital	c502 (4) as documented electronically in Roche
Phenobarbital	Cobas LINK/ Cobas c502
Phenytoin	Kinetic interaction of microparticles in a
Phenytoin	solution/Cobas c502 (4) documented as
Phenytoin	electronically in Roche Cobas c502
Theophylline	Kinetic interaction of microparticles in a
Theophylline	solution/Cobas c502 (4) documented as
Theophylline	electronically in Roche Cobas c502
Valproic Acid	Kinetic interaction of microparticles in a
Valproic Acid	solution/Cobas c502 (4) documented as
Valproic Acid	electronically in Roche Cobas c502
Vancomycin	Kinetic interaction of microparticles in a
Vancomycin	solution/Cobas c502 (4) documented as
Vancomycin	electronically in Roche Cobas c502
Alanine	Colourimetry - Tris Buffer (IFCC w/o pyridoxal
Aminotransferase	phosphate)/Cobas c702 (4) as documented
Aminotransferase	electronically in Roche Cobas LINK/Cobas c702
Albumin	Colourimetry - Tris Buffer (IFCC w/o pyridoxal
Albumin	phosphate)/Cobas c702 (4) as documented
Albumin	electronically in Roche Cobas LINK/Cobas c702
Albumin	Colourimetry - AMP Buffer - Rate (IFCC)/Cobas
Alkaline Phosphatase	c702(4) as documented electronically in Roche
Alkaline Phosphatase	Cobas LINK/Cobas c702
Alpha-1-Antitripsin	mmunoelectrochemiluminescenc e/Cobas c502
Alpha-1-Antitripsin	(4) as documented electronically in Roche Cobas
Alpha-1-Antitripsin	LINK/Cobas c502

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Anti-Mullerian	mmunoelectrochemiluminescenc e/Cobas e801
Hormone (AMH)	(6) as documented electronically in Roche Cobas
Hormone (AMH)	LINK/Cobas e801
Apo A	mmunoturbidimetric/Cobas c502 (4) as
Apo A	documented electronically in Roche Cobas LINK/
Apo A	Cobas c502
Apo B	mmunoturbidimetric/Cobas as
Apo B	documented electronically in Roche COBAS
Apo B	LINK/COBAS c502
Aspartate	Colourimetry - Tris Buffer (IFCC w/o pyridoxal
Aminotransferase	phosphate)/Cobas c702(4) documented as
Aminotransferase	electronically in Roche COBAS LINK/COBAS c702
Bicarbonate	Colourimetry - Enzymatic (PEPC)/Cobas c502(4)
Bicarbonate	as documented electronically in Roche COBAS
Bicarbonate	LINK/COBAS c502
Beta Cross Laps	Immunoelectrochemiluminescenc e/Cobas e801
Beta Cross Laps	(6) as documented electronically in Roche Cobas
Beta Cross Laps	LINK/Cobas e801
Total Bilirubin	Colourimetry -" Diazonium Salt/Cobas c702 (4) as
Total Bilirubin	documented electronically in Roche Cobas LINK/
Total Bilirubin	Cobas c702
C3	Immunoturbidimetric/Cobas c502 (4) as
C3	documented electronically in Roche Cobas LINK/
C3	Cobas c502
C4	Immunoturbidimetric/Cobas c502 (4) as
C4	documented electronically in Roche Cobas LINK/
C4	Cobas c502
Cholesterol	Colourimetry Cholesterol a
Cholesterol	Oxidase/Peroxidase/Cobas c702 (4) as
Cholesterol	documented electronically in Roche Cobas LINK/
Cholesterol	Cobas c702

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FBHCG	Immunochemiluminometric assay/Cobas e801
FBHCG	(6) as documented electronically in Roche Cobas
FBHCG	LINK/Cobas e801
Gamma GT	Colourimetric - g - glutamyl - 3 - carboxy - "
Gamma GT	nitro/Cobas c702 (4) documented as
Gamma GT	electronically in Roche Cobas LINK/ Cobas c702
Growth Hormone	Immunochemiluminometric assay/Cobas e801
Growth Hormone	(6) as documented electronically in Roche Cobas
Growth Hormone	LINK/Cobas e801
Total HCG	Immunochemiluminometric assay/Cobas e801
Total HCG	(6) as documented electronically in Roche Cobas
Total HCG	LINK/Cobas e801
Neonatal Bilirubin	APEL Bilirubin Tester based on dual wavelength
Neonatal Bilirubin	absorbance/ in Bilirubinmeter BR-5200 (1) as
Neonatal Bilirubin	documented in user manual
HDL - Chol	Colourimetry Non sep DxSo4/PEG mod
HDL - Chol	enzymes/Cobas c702 (4) as electronically in
HDL - Chol	Roche Cobas LINK/Cobas c702
Homocysteine	Colourimetric - " Enzymatic/Cobas c702 (4) as
Homocysteine	documented electronically in Roche Cobas LINK/
Homocysteine	Cobas c702
IGA	Immunoturbidimetric/Cobas c502 (4) as
IGA	documented electronically in Roche Cobas LINK/
IGA	Cobas c502
IGE	Immunochemiluminometric assay/Cobas c502
IGE	(4) as documented electronically in Roche Cobas
IGE	LINK/Cobas c502
IGF-1	Immunochemiluminometric assay/Cobas e801
IGF-1	(6) as documented electronically in Roche Cobas
IGF-1	LINK/Cobas e801

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IGG	Immunoturbidimetric/Cobas c502 (4) as
IGG	documented electronically in Roche Cobas LINK/
IGG	Cobas c502
IGM	Immunoturbidimetric/Cobas c502 (4) as
IGM	documented electronically in Roche Cobas LINK/
IGM	Cobas c502
Insulin	Immuno-electrochemiluminescence/Cobas e801
Insulin	(6) as documented electronically in Roche Cobas
Insulin	LINK/Cobas e801
nan	Colourimetry FerroZine without deproteinization/Cobas c502 (4) as documented
nan	electronically in Roche Cobas LINK/Cobas c502
Lactate Dehydrogenase	Colourimetric -" Rate to P/Cobas c502 (4) as
Lactate Dehydrogenase	documented electronically in Roche Cobas LINK/
Lactate Dehydrogenase	Cobas c502
LH	Immuno-electrochemiluminescence/Cobas e801 (6)
LH	as documented electronically in Roche Cobas LINK/
LH	Cobas e801
Lipase	Colourimetry - Glutaric acid ester/Cobas c502 (4) as
Lipase	documented electronically in Roche Cobas LINK/
Lipase	Cobas c502
Lipoprotein (a)	Immunoturbidimetric/Cobas c502 (4) as documented
Lipoprotein (a)	electronically in Roche Cobas LINK/Cobas c502
Lp(a) NT-pro BNP	Immuno-electrochemiluminescence/Cobas e801 (6)
Lp(a) NT-pro BNP	as documented electronically in Roche Cobas LINK/
Lp(a) NT-pro BNP	Cobas e801
Oestradiol	Immuno-electrochemiluminescence/Cobas e801 (6)
Oestradiol	as documented electronically in Roche Cobas
Oestradiol	LINK/Cobas e801
Progesterone	Immuno-electrochemiluminescence/Cobas e801 (6)

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Progesterone	as documented electronically in Roche Cobas
Progesterone	LINK/Cobas e801
Prolactine	Immuno-electrochemiluminescence/Cobas e801 (6)
Prolactine	as documented electronically in Roche Cobas LINK/
Prolactine	Cobas e801
Testosterone	Immuno-electrochemiluminescence/Cobas e801 (6)
Testosterone	as documented electronically in Roche Cobas LINK/
Testosterone	Cobas e801
Thyroglobulin	Immuno-electrochemiluminescence/Cobas e801 (6)
Thyroglobulin	as documented electronically in Roche Cobas LINK/
Thyroglobulin	Cobas e801
Total Protein	Colourimetry Biuret/Cobas c702 (4) as
Total Protein	documented electronically in Roche Cobas
Total Protein	LINK/Cobas c702
Transferin	Immunoturbidimetric/Cobas c502 as documented
Transferin	electronically in Roche Cobas LINK/Cobas c502
Triglycerides	Colourimetry -" Lipase / Glycerol kinase / GPO-
Triglycerides	PAP/Cobas c702 (4) as documented electronically
Triglycerides	in Roche Cobas LINK/Cobas c702
Vitamin B12	Immuno-electrochemiluminescence/Cobas e801
Vitamin B12	(6) as documented electronically in Roche Cobas
Vitamin B12	LINK/Cobas e801
Vitamin D	Immuno-electrochemiluminescence/Cobas e801(6)
Vitamin D	as documented electronically in Roche Cobas
Vitamin D	LINK/Cobas e801
PAPP-A (Pregnancy Associate Plasma	Immuno-electrochemiluminescence/Cobas e801
Protein A)	(6) as documented electronically in Roche Cobas
Rheumatoid Factor	LINK/Cobas e801
	Immunoturbidimetric/Cobas c702 (4) as

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Rheumatoid Factor	documented electronically in Roche Cobas
Rheumatoid Factor	LINK/Cobas c702
Direct LDL	Colourimetry Non sep DxSo4/PEG mod -
Direct LDL	enzymes/Cobas c502 (4) as electronically in
Direct LDL	Roche Cobas LINK/Cobas c502
Troponin T-HS	Immunochemiluminescence/Cobas e801
Troponin T-HS	(6) as documented electronically in Roche Cobas
Troponin T-HS	LINK/Cobas e801
TSH	Immunochemiluminescence/Cobas e801
TSH	(6) as documented electronically in Roche Cobas
TSH	LINK/Cobas e801
AFP	Immunochemiluminescence/Cobas e801
AFP	(6) as documented electronically in Roche Cobas
AFP	LINK/Cobas e801
CA 12-5	Immunochemiluminescence/Cobas e801
CA 12-5	(6) as documented electronically in Roche Cobas
CA 12-5	LINK/Cobas e801
CA 15-3	Immunochemiluminescence/Cobas e801
CA 15-3	(6) as documented electronically in Roche Cobas
CA 15-3	LINK/Cobas e801
CA 19-9	Immunochemiluminescence/Cobas e801
CA 19-9	(6) as documented electronically in Roche Cobas
CA 19-9	LINK/Cobas e801
CEA	Immunochemiluminescence/Cobas e801
CEA	(6) as documented electronically in Roche Cobas
CEA	LINK/Cobas e801
PSA - Free	Immunochemiluminescence/Cobas e801
PSA - Free	(6) as documented electronically in Roche Cobas
PSA - Free	LINK/Cobas e801
PSA - Total	Immunochemiluminescence/Cobas e801

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PSA - Total	(6) as documented electronically in Roche Cobas
PSA - Total	LINK/Cobas e801
Leptospira IgM	Rapid Chromatographic Immunoassay/Manual as
Leptospira IgM	documented in GPQD/SER/SOP-6
Cardiolipin IgG / M	ELISA/Euroimmune (1) as documented in 1-2P-
antibodies	(GPQD/SER/SOP-4)
Anti Nuclear Ab	Indirect Immunofluorescence/Euroimmun (1) as
Anti Nuclear Ab	documented in GPQD/SER/SOP-14 &
Anti Nuclear Ab	GPQD/SER/SOP-1
Anti Streptolysin O	Immunoturbidimetric/Cobas c502(4) as documented
(ASOT)	electronically in Roche Cobas LINK/Cobas c502
Autoantibodies	Immunofluorescence/Euroimmun (1) as documented in
#NAME?	AUT (GPQD/SER/SOP-14) & (GPQD/SER/SOP-1)
#NAME?	nan
Widal & Weil Felix	Agglutination, stained febrile antigen/Manual as
Widal & Weil Felix	documented in WWF (GPQD/SER/SOP-21)
Tg Antibodies & TPO	Immuno-electrochemiluminescence/Cobas e801(6) as
antibodies	documented electronically in Roche COBAS
antibodies	LINK/COBAS e801
P24Ag	Immuno-electrochemiluminescence/Cobas e801(6) as
P24Ag	documented electronically in Roche Cobas LINK/
P24Ag	Cobas e801
Anti ds-DNA	ELISA/Euroimmun (1) as documented in dsDNA
Anti ds-DNA	Euroimmun (GPQD/SER/SOP-4)
Antibodies to	Immunoblot/Euroimmun (1) documented in as
Extractable Nuclear	GPQD/SER/SOP-26
Antigen screening	nan
Rapid TB antibody test	Rapid Chromatographic immunoassay/Manual as
Rapid TB antibody test	documented in MTA (GPQD/SER/SOP-2)

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Chlamydia IgM	ELISA/Manual as documented in GPQD/SER/SOP-5
Chlamydia IgM	Chemiluminescence Immunoassay/Diasorin XL (2) as documented in Operator Manual
Chlamydia IgG	Electrochemiluminescence assay/ Roche Cobas
AFP	(e601, e411) as documented electronically in
AFP	COBAS LINK/Roche COBAS
CEA	Electrochemiluminescence assay/ Roche Cobas
CEA	(e601, e411) as documented electronically in
CEA	COBAS LINK/Roche COBAS
PSA -" Total	Electrochemiluminescence assay/ Roche Cobas
PSA -" Total	(e601, e411) as documented electronically in
PSA -" Total	COBAS LINK/Roche COBAS
Free T3	Electrochemiluminescence assay/ Roche Cobas
Free T3	(e601, e411) as documented electronically in
Free T3	COBAS LINK/Roche COBAS
Free T4	Electrochemiluminescence assay/ Roche Cobas
Free T4	(e601, e411) as documented electronically in
Free T4	COBAS LINK/Roche COBAS
TSH	Electrochemiluminescence assay/ Roche Cobas
TSH	(e601, e411) as documented electronically in
TSH	COBAS LINK/Roche COBAS
HCG	Electrochemiluminescence assay/ Roche Cobas
HCG	(e601, e411) as documented electronically in
HCG	COBAS LINK/Roche COBAS
CA 19-9	Electrochemiluminescence assay/ Roche Cobas
CA 19-9	(e601, e411) as documented electronically in
CA 19-9	COBAS LINK/Roche COBAS
CA 15-3	Electrochemiluminescence assay/ Roche Cobas
CA 15-3	(e601, e411) as documented electronically in
CA 15-3	COBAS LINK/Roche COBAS

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CA 15-3	Electrochemiluminescence assay/ Roche Cobas
CA125	(e601, e411) as documented electronically in
CA125	COBAS LINK/Roche COBAS
Alanine	Photometry, IFCC without PYP/Roche Cobas (c501,
Aminotransferase	c311) as documented electronically in
Aminotransferase	COBAS LINK/Roche COBAS
Albumin	Photometry, BCG/ Roche Cobas (c501, c311)
Albumin	documented electronically in Roche COBAS
Albumin	LINK/Roche COBAS
Alkaline Phosphatase-	Photometry, IFCC /Roche Cobas (c501, c311) as
AMP.	documented electronically in Roche COBAS
AMP.	LINK/Roche COBAS
Aspartate	Photometry, IFCC without PYP/Roche Cobas (c501,
Aminotransferase	c311) as documented electronically in Roche
Aminotransferase	COBAS LINK/Roche COBAS
Bilirubin-Total	Photometry Colorimetric Diazo/ Roche Cobas
Bilirubin-Total	(c501, as documented electronically in
Bilirubin-Total	COBAS LINK/Roche COBAS
Gamma GT	Photometry IFCC/Roche Cobas (c501, c311)
Gamma GT	documented electronically in Roche COBAS
Gamma GT	LINK/Roche COBAS
Total Protein	Photometry Biuret/Roche Cobas (c501, c311)
Total Protein	documented electronically in Roche COBAS
Total Protein	LINK/Roche COBAS
Cholesterol	Photometry CHOD-PAP/ Roche Cobas (c501,
Cholesterol	as documented electronically in Roche COBAS
Cholesterol	LINK/Roche COBAS
HDL Cholesterol	Photometry enzymatic colorimetric/Roche Cobas
HDL Cholesterol	(c501, c311) as documented electronically in
HDL Cholesterol	COBAS LINK/Roche COBAS

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Triglycerides	Photometry GPO-PAP/ Roche Cobas (c501,
Triglycerides	as documented electronically in Roche COBAS
Triglycerides	LINK/Roche COBAS
Creatinine	Photometry Jaffe rate-blank and compensated
Creatinine	Roche Cobas (c501, as documented
Creatinine	electronically in Roche COBAS
Creatinine	COBAS
Calcium	Photometry BAPTA/Roche Cobas (c501, c311) as
Calcium	documented electronically in Roche COBAS
Calcium	LINK/Roche COBAS
Inorganic Phosphate	Photometry molybdate UV/ Roche Cobas (c501,
Inorganic Phosphate	c311) as documented electronically in
Inorganic Phosphate	COBAS LINK/Roche COBAS
Urea	Photometry Urase/GLDH/Roche Cobas (c501,
Urea	c311) as documented electronically in Roche
Urea	COBAS LINK/Roche COBAS
Uric Acid	Photometry Enzymatic colorimetric Roche Cobas
Uric Acid	(c501, c311) as documented electronically in
Uric Acid	COBAS LINK/Roche COBAS
Sodium	Ion selective electrode measurements, ISE indirect/
Sodium	Roche Cobas (c501, as documented
Sodium	electronically in Roche COBAS
Sodium	COBAS
Potassium	selective electrode measurements, ISE
Potassium	indirect/ Roche Cobas (c501, as
Potassium	documented electronically in Roche COBAS
Potassium	LINK/Roche COBAS
Chloride	selective electrode measurements, ISE
Chloride	indirect Roche Cobas (c501, c311) as documented
Chloride	electronically in Roche
Chloride	COBAS
Glucose	Photometry Hexokinase/Roche Cobas (c501,

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Glucose	c311) as documented electronically in Roche
Glucose	COBAS LINK/Roche COBAS
Rheumatoid Factor	Photometry, Immunoturbidimetric/Roche Cobas
Rheumatoid Factor	(c501, c311) as documented electronically in
Rheumatoid Factor	Roche COBAS LINK/Roche COBAS
Rheumatoid Factor	FerroZine/ Roche Cobas (c501, c311) as
Rheumatoid Factor	documented electronically in Roche COBAS
Rheumatoid Factor	LINK/Roche COBAS
AFP	Immunoelectrochemiluminescence/Cobas e601 as
AFP	documented electronically in Roche COBAS
AFP	LINK/COBAS 6000
CEA	Immunoelectrochemiluminescence/Cobas e601 as
CEA	documented electronically in Roche COBAS
CEA	LINK/COBAS 6000
PSA Total	Immunoelectrochemiluminescence/Cobas e601 as
PSA Total	documented electronically in Roche COBAS
PSA Total	LINK/COBAS 6000
Free T3	Immunoelectrochemiluminescence/Cobas e601 as
Free T3	documented electronically in Roche COBAS
Free T3	LINK/COBAS 6000
Free T4	Immunoelectrochemiluminescence/Cobas e601 as
Free T4	documented electronically in Roche COBAS
Free T4	LINK/COBAS 6000
TSH	Immunoelectrochemiluminescence/Cobas e601 as
TSH	documented electronically in Roche COBAS
TSH	LINK/COBAS 6000
HCG	Immunoelectrochemiluminescence/Cobas e601 as
HCG	documented electronically in Roche COBAS
HCG	LINK/COBAS 6000

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Alanine	Colourimetry - Tris Buffer (IFCC w/o pyridoxal
Aminotransferase	phosphate)/Cobas c501 documented as
Aminotransferase	electronically in Roche COBAS LINK/COBAS 6000
Albumin	Colourimetry - Tris Buffer (IFCC w/o pyridoxal
Albumin	phosphate)/Cobas c501 documented as
Albumin	electronically in Roche COBAS LINK/COBAS 6000
Alkaline Phosphatase-	Colourimetry - AMP Buffer - Rate (IFCC) as/Cobas
AMP	c501 documented electronically in Roche COBAS
AMP	LINK/COBAS 6000
Aspartate	Colourimetry - Tris Buffer (IFCC w/o pyridoxal
Aminotransferase	phosphate)/Cobas c501 documented as
Aminotransferase	electronically in Roche COBAS LINK/COBAS 6000
Bilirubin-Total	Colourimetry -" Diazonium Salt/Cobas c501 as
Bilirubin-Total	documented electronically in Roche COBAS
Bilirubin-Total	LINK/COBAS 6000
Direct Bilirubin	Colourimetry -" Diazo/Cobas c501 as documented
Direct Bilirubin	electronically in Roche COBAS LINK/COBAS 6000
Gamma GT	Colourimetric - g - glutamyl - 3 - carboxy -"
Gamma GT	nitro/Cobas c501 as documented electronically in
Gamma GT	Roche COBAS LINK/COBAS 6000
Total Protein	Colourimetry Biuret/c501 documented as
Total Protein	electronically in Roche COBAS LINK/COBAS 6000
Cholesterol	Colourimetry Cholesterol Oxidase /
Cholesterol	Peroxidase/Cobas c501 documented as
Cholesterol	electronically in Roche COBAS LINK/COBAS 6000
HDL Cholesterol	Colourimetry Non sep DxSo4/PEG mod

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HDL Cholesterol	enzymes/Cobas c501 as documented electronically
HDL Cholesterol	in Roche COBAS LINK/COBAS 6000
Triglycerides	Colourimetry -" Lipase / Glycerol kinase /
Triglycerides	GPO-PAP/Cobas c501 documented as
Triglycerides	electronically in Roche COBAS LINK/COBAS 6000
Urea	Colourimetry -" Urease -" Rate/c501 as documented
Urea	electronically in Roche COBAS LINK/COBAS 6000
Uric Acid	Colourimetry Enzymatic (Uricase)/c501 as
Uric Acid	documented electronically in Roche COBAS
Uric Acid	LINK/COBAS 6000
Sodium	Indirect ISE/Cobas c501 documented as
Sodium	electronically in Roche COBAS LINK/COBAS 6000
Potassium	Indirect ISE/Cobas c501 documented as
Potassium	electronically in Roche COBAS LINK/COBAS 6000
Chloride	Indirect ISE/Cobas c501 documented as
Chloride	electronically in Roche COBAS LINK/COBAS 6000
CKMB	Colourimetry -" Immunoinhibition/Cobas c501 as
CKMB	documented electronically in Roche COBAS
CKMB	LINK/COBAS 6000
Creatine Kinase	Colourimetry NAC Activator / Imidazole
Creatine Kinase	Buffer/Cobas c501 electronically in Roche
Creatine Kinase	COBAS LINK/COBAS 6000
Lactate Dehydrogenase	Colourimetric -" Rate to P/Cobas c501 as
Lactate Dehydrogenase	documented electronically in Roche COBAS
Lactate Dehydrogenase	LINK/COBAS 6000
Amylase	Colourimetry -p-Nitrophenyl (IFCC)/Cobas c501 4a
Amylase	documented electronically in Roche COBAS
Amylase	LINK/COBAS 6000

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Rheumatoid Factor	Immunoturbidimetric/Cobas c501 as documented
Rheumatoid Factor	electronically in Roche COBAS LINK/COBAS 6000
Magnesium	Colourimetry Xylidyl Blue/Cobas c501 as -
Magnesium	documented electronically in Roche COBAS
Magnesium	LINK/COBAS 6000
CRP	Immunoturbidimetric/Conas c501 as documented
CRP	electronically in Roche COBAS LINK/COBAS 6000
Neonatal Bilirubin	dual wavelength absorbance/Apel Bilirubin based on
Neonatal Bilirubin	as documented in BI-SOP-038
Urine FEME	Urine dipstick as documented in GPQD/MIC/SOP-43
Urine FEME	Urine Microscopy documented in as
Urine FEME	GPQD/MIC/SOP-12
Urine Pregnancy Test	Rapid chromatographic immunoassay as
Urine Pregnancy Test	documented in GPQD/MIC/SOP-33
AFP	mmunoelectrochemiluminescence/Cobas e411 as
AFP	documented electronically in Roche COBAS E411
CEA	mmunoelectrochemiluminescence/Cobas e411 as
CEA	documented electronically in Roche COBAS E411
PSA - Total	mmunoelectrochemiluminescence/Cobas e411 as
PSA - Total	documented electronically in Roche COBAS E411
Free T3	mmunoelectrochemiluminescence/Cobas e411 as
Free T3	documented electronically in Roche COBAS E411
Free T4	mmunoelectrochemiluminescence/Cobas e411 as
Free T4	documented electronically in Roche COBAS E411
TSH	Immunoelectrochemiluminescence/Cobas e411
TSH	as documented electronically in Roche COBAS
TSH	E411

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Anti-HBs	Immunochemiluminescence as documented
Anti-HBs	in electronically in Roche E411
HBsAg	Immunochemiluminescence as documented
HBsAg	in electronically in Roche E411
Anti-HIV	Immunochemiluminescence as documented
Anti-HIV	in electronically in Roche E411
Dengue Ab IgG/IgM	nan
Dengue NS1	Fluorescence Immunoassay/F200 as documented
Dengue NS1	in Dengue NS1 SOP (GPQD/HAE/SOP-29)
Leptospira IgM	ImmunoChromatographic Assay/Manual rapid as
Leptospira IgM	kit insert Leptospira IgM Rapid per
Leptospira IgM	(GPQD/SERO/SOP-6)
HIV Antigen/Antibody	Architect 12000 SR / CMIA technology as documented in:
HIV Antigen/Antibody	a) PK-HPSF-PAT-MC-01 (Prosedur Pengendalian Spesimen di Unit Mikrobiologi)
HIV Antigen/Antibody	b) PK-HPSF-PAT-MC-03 (Pengurusan Spesimen Medicolegal)
HIV Antigen/Antibody	c) MK-HPSF-PAT-MC-14 (Manual Kerja Ujian Serologi (Bakteriologi dan Virologi))
HIV Antigen/Antibody	qd) MK-HPSF-PAT-MC-18 Kel. (Manual Kerja Handling of Architect)
HIV Antigen/Antibody	e) MPT-HPSF-PAT-MC-14.1 (Manual Prosedur Teknikal Chemiluminescence Immunoassay Test (CMIA))
HIV 1/2 Supplementary	Serodia Particle Agglutination as documented in:
HIV 1/2 Supplementary	a) PK-HPSF-PAT-MC-03 (Pengurusan Spesimen Medicolegal)
HIV 1/2 Supplementary	b) MK-HPSF-PAT-MC-14 (Manual Kerja Ujian Serologi (Bakteriologi dan Virologi))
HIV 1/2 Supplementary	c) MPT-HPSF-PAT-MC-10.2 (Manual Prosedur Teknikal Particle Agglutination)
HCV Antibody	Architect 12000 SR / CMIA technology as documented in:

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HCV Antibody	a) PK-HPSF-PAT-MC-03 (Pengurusan Spesimen Medicolegal)
HCV Antibody	b) MK-HPSF-PAT-MC-14 (Manual Kerja Ujian Serologi (Bakteriologi dan Virologi))
HCV Antibody	c) MK-HPSF-PAT-MC-18 (Manual Kerja Handling of Architect)
HCV Antibody	qd) MPT-HPSF-PAT-MC-14.2 (Manual Prosedur Teknikal Chemiluminescence Immunoassay Test (CMIA) ?HCV Antibody)
HbsAg	Architect 12000 SR / CMIA technology as documented in:
HbsAg	a) PK-HPSF-PAT-MC-03 (Prosedur Kualiti Pengurusan Spesimen Medicolegal)
HbsAg	b) MK-HPSF-PAT-MC-14 (Manual Kerja Ujian Serologi (Bakteriologi dan Virologi))
HbsAg	c) MK-HPSF-PAT-MC-18 (Manual Kerja Handling of Architect)
HbsAg	qd) MPT-HPSF-PAT-MC-14.4 (Manual Prosedur Teknikal Chemiluminescence Immunoassay Test (CMIA) - HBsAg)
anti-HBs	Architect 12i000 SR / CMIA technology as documented in:
anti-HBs	a) MK-HPSF-PAT-MC-14 (Manual Kerja Ujian Serologi (Bakteriologi dan Virologi))
anti-HBs	b) MK-HPSF-PAT-MC-18 (Manual Kerja Handling of Architect)
anti-HBs	c) MPT-HPSF-PAT-MC-14.3 (Manual Prosedur Teknikal Chemiluminescence Immunoassay Test (CMIA) ?Anti- HBs)
Rheumatoid Factor	Latex agglutination as documented in:
Rheumatoid Factor	a) MK-HPSF-PAT-MC-15 (Manual Kerja Ujian Immunologi)
Rheumatoid Factor	b) MPT-HPSF-PAT-MC-12.3 (Manual Prosedur Teknikal Latex agglutination Test - Rheumatoid Factor)

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RPR	Latex agglutination as documented in:
RPR	a) MK-HPSF-PAT-MC-14 (Manual Kerja Ujian Serologi (Bakteriologi dan Virologi))
RPR	b) MPT-HPSF-PAT-MC-12.9 (Manual Prosedur Teknikal Latex agglutination Test ?Rapid Plasma Reagin)
TPPA	Particle Agglutination as documented in:
TPPA	a) MK-HPSF-PAT-MC-14 (Manual Kerja Ujian Serologi (Bakteriologi dan Virologi))
TPPA	b) MPT-HPSF-PAT-MC-10.1 (Manual Prosedur Teknikal Particle Agglutination - TPPA)
Leptospira IgM	Latex agglutination as documented in:
Leptospira IgM	a) MK-HPSF-PAT-MC-14 (Manual Kerja Ujian Serologi (Bakteriologi dan Virologi))
Leptospira IgM	b) MPT-HPSF-PAT-MC-12.10 (Manual Prosedur Teknikal: Latex agglutination Test ?Leptospira IgM Test)
Dengue rapid NS1Ag Dengue rapid IgG/IgM	Immunochromatography test as documented in:
Dengue rapid NS1Ag Dengue rapid IgG/IgM	a) MK-HPSF-PAT-MC-14 (Manual Kerja Ujian Serologi (Bakteriologi dan Virologi))
Dengue rapid NS1Ag Dengue rapid IgG/IgM	b) MPT-HPSF-PAT-MC-13.2 (Manual Prosedur Teknikal: Immunochromatography Test (ICT) - Dengue Duo IgG and IgM)
Dengue rapid NS1Ag Dengue rapid IgG/IgM	c) MPT-HPSF-PAT-MC-13.3 (Manual Prosedur Teknikal: Immunochromatography Test (ICT) ?NS1 Antigen)
Mycoplasma	Particle Agglutination as documented in:
Mycoplasma	a) MK-HPSF-PAT-MC-14 (Manual Kerja Ujian Serologi (Bakteriologi dan Virologi))
Mycoplasma	b) MPT-HPSF-PAT-MC-10.3 (Manual Prosedur Teknikal Particle Agglutination - Mycoplasma)

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Detection of total	In-house Microagglutination Test (MAT)
antileptospirosis antibody	as documented in
using the	IMR/IDRC/BACT/SOP/34
microagglutination test	nan
(MAT)	nan
Anti-N-Methyl-D-Aspartate	documented in
	IMR/AIRC/AI/SOP/NMDAR-1
Alpha-1-Antitrypsin	A1AT Isofocusing as documented in
Phenotyping	IMR/SDC/PK/SOP-10 (SEBIA
Phenotyping	HYDRASIS electrophoresis system)
Transferrin Isoform	Capillary Electrophoresis as documented
Transferrin Isoform	in IMR/SDC/PK/SOP-9
Transferrin Isoform	(SEBIACAPILLARYS SYSTEM)
Acetaminophen	EMIT on Beckman Coulter AU5800 as documented in HS/JP/W1 (CP;07)-024 Test on Beckman Coulter AU 5800
Alpha feto protein	Immunoenzymatic assay on Dx1800 Beckman Coulter as documented in HS/JP/W1 (CP;07)- 027 Test on Dx1800 Immunoassay Analyzer
Alpha-1 antitrypsin	Immunoturbidimetry on Beckman Coulter AU5800 as documented in HS/JP/W1 (CP;07)- 024 Test on Beckman Coulter AU5800
Amikacin	EMIT on Beckman Coulter AU5800 as documented in (CP;07)-024Test on Beckman Coulter AU 5800
Anti-Thyroglobulin	Chemiluminescence on Dx1800 Beckman Coulter as documented in

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Anti-Thyroglobulin	HS/JP/WI (CP;07) -027 Test on Dx1800 Immunoassay Analyzer
Anti-Thyroid Peroxidase	Immunoenzymatic assay on Dx1800 Beckman Coulter as documented in
Anti-Thyroid Peroxidase	HS/JP/WI (CP;07) -027 Test on Dx1800 Immunoassay Analyzer
Beta Human Chorionic	Immunoenzymatic assay on Dx1800 Beckman Coulter-as documented in
Gonadotrophin (beta- hCG)	HS/JP/WI (CP;07) - 027 Test on Dx Immunoassay Analyzer
C-Reactive Protein (CRP)	Immunoturbidimetry latex on Beckman Coulter AU5800 as documented in HS/JP/WI
C-Reactive Protein (CRP)	(CP;07) 024Test on Beckman Coulter AU5800
CA 19-19	Chemiluminescence on
CA 19-19	Beckman Coulter as documented in
CA 19-19	HS/JP/WI (CP;07)- 027 Test on Dxl800 Immunoassay Analyzer
CA 125	Chemiluminescence on Beckman Coulter as documented in
CA 125	HS/JP/WI (CP;07) -027 Test on Dxl800 Immunoassay Analyzer
Carbamazepine	Homogenous enzyme Immunoassay on Beckman Coulter AU5800 as documented in
Carbamazepine	HS/JP/WI (CP;07)- 024Test on Beckman Coulter AU5800
Carcinoembryonic Antigen (CEA)	Chemiluminescence on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP;07)- 027 Test on Dxl800 Immunoassay Analyzer
Caeruloplasmin	Immunoturbidimetry on Beckman Coulter AU5800 as documented in HS/JP/W1 (CP;07)- 024 Test on Beckman Coulter AU5800
Cholesterol, HDL	Immunology Inhibition Method on Beckman Coulter AU5800 as documented in HS/JP/WI
Cholesterol, HDL	(CP;07)-024 Test on Beckman Coulter AU 5800
Cholesterol, Total	CHOD ? PAP Method on Beckman Coulter AU5800 as documented in HS/JP/WI (CP;07)- 024 Test on Beckman Coulter AU 5800

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Cholinesterase	GSCC (1994) Photometric Method on Beckman Coulter AU5800 as documented in
Cholinesterase	HS/JP/WI (CP;07)-024 Test on Beckman Coulter AU 5800
Complement C3	Immunoturbidimetry on Beckman Coulter AU5800 as documented in HS/JP/WI (CP;07)- 024 Test on Beckman Coulter AU 5800
Complement C4	Immunoturbidimetry on Beckman Coulter AU5800 as documented in HS/JP/WI (CP;07)- 024 Test on Beckman Coulter AU 5800
Creatine Kinase MB (CKMB)	Immunoenzymatic assay on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP;07)- 027 Test on Dxl800 Immunoassay Analyzer
Digoxin	Immunoinhibition test on Beckman Coulter AU5800 as documented in HS/JP/WI (CP;07)- 024 Test on Beckman Coulter AU 5800
Ferritin	Chemiluminescence on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP;07)- 027 Test on Dxl800 Immunoassay Analyzer
Folate	Chemiluminescence on on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP;07)- 027 Test on Dxl800
Follicular Stimulating Hormone (FSH)	Chemiluminescence on on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP;07)- 027 Test on Dxl800 Immunoassay Analyzer
Immunoglobulin A (IgA)	Immunoturbidimetry on Beckman Coulter AU5800 as documented in HS/JP/WI (CP;07)- 024 Test on Beckman Coulter AU 5800
Immunoglobulin G (IgG)	Immunoturbidimetry on Beckman Coulter AU5800 as documented in HS/JP/WI (CP;07)- 024 Test on Beckman Coulter AU 5800
Immunoglobulin M (IgM)	Immunoturbidimetry on Beckman Coulter AU5800 as documented in HS/JP/WI (CP;07)- 024 Test on Beckman Coulter AU 5800
Iron	TPTZ coloured complex method on Beckman Coulter AU5800 as documented in HS/JP/WI

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Iron	(CP;07)-024 Test on Beckman Coulter AU 5800
Luteinising Hormone (LH)	Chemiluminescence on on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP;07)- 027 Test on Dxl800 Immunoassay Analyzer
Phenobarbital	EMIT on Beckman Coulter AU5800 as
Phenobarbital	documented in HS/JP/W1 (CP;07)-024 Test on Beckman Coulter AU 5800
Phenytoin	EMIT on Beckman Coulter AU5800 as
Phenytoin	documented in HS/JP/WI (CP;07)-024 Test on Beckman Coulter AU 5800
Progesterone	Chemiluminescence on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP;07)- 027 Test on Dxl800 Immunoassay Analyzer
Prolactin	Chemiluminescence on on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP;07)- 027 Test on Dxl800 Immunoassay Analyzer
Prostatic Specific Antigen, Total (PSA)	Chemiluminescence on on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP;07)- 027 Test on Dxl800 Immunoassay Analyzer
Salicylate	EMIT on Beckman Coulter AU5800as
Salicylate	documented in (CP;07)-024 Test on Beckman Coulter AU 5800
Testosterone	Chemiluminescence on Dxl800 Beckman Coulte as documented in (CP;07)- 027 Test on Dxl800 Immunoassay Analyzer
Thyroid Stimulating Hormone (TSH)	Chemiluminescence on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP;07)- 027 Test on Dxl800 Immunoassay Analyzer
Thyroxine, Free (FT4)	Chemiluminescence on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP;07)- 027 Test on Dxl800 Immunoassay Analyzer

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Triiodothyronine, Free (FT3)	Chemiluminescence on Dxl800 Beckman Coulter as documented in HS/JP/WI (CP:07)- 027 Test on Dxl800 Immunoassay Analyzer
Unsaturated Iron Binding Capacity (UIBC)	Bathophenanthroline Nitroso-PSAP method on Beckman Coulter AU5800 as documented
Unsaturated Iron Binding Capacity (UIBC)	in HS/JP/WI (CP:07)-024 Test on Beckman Coulter AU 5800
Triglycerides	Enzymatic method as documented in HS/JP/WI (CP:07)- 024 Test on Beckman Coulter AU5800
Valproic acid	Homogeneous enzyme Immunoassay EMIT on Beckman Coulter AU5800 as documented
Valproic acid	in HS/JP/WI (CP:07)-024 Test on Beckman Coulter AU 5800
Vancomycin	EMIT on Beckman Coulter AU5800 as documented in HS/JP/WI
Vancomycin	(CP:07)-024 Test on Beckman Coulter AU 5800
Vitamin B12	Chemiluminescence on
Vitamin B12	Beckman Coulter as documented in
Vitamin B12	HS/JP/W1 (CP:07)- 027 Test on Immunoassay Analyzer
Leptospira IgM	Immuno chromatography as documented in HS/JP/W1(MB:10)- 009/Section 11
Treponema Pallidum Particle Agglutination (TPPA)	Floculation as documented in 4
Rapid Plasma Reagin (RPR)	Latex Agglutination as documented in HS/JP/W1(MB:10)-009/Section 3
Anti-Streptolysin O (ASOT)	Latex Agglutination as documented in HS/JP/W1(MB:10)-009/Section 6
HIV Supplementary Test	Particle Agglutination as documented in
HIV Supplementary Test	HS/JP/W1(MB:10)- 009\Section 1a
Dengue IgM	EIA. Personal Lab as documented in HS/JP/W1(MB:10)-007/Section 1
HBV Viral Load	1. Real Time Polymerase Chain Reaction (PCR). Abbott m2000 as documented in HS/JP/W1(MB:10)- 017/Section 1

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HBV Viral Load	2. Real Time Polymerase Chain Reaction (PCR). Alinity as documented in HS/JP/WI(MB:10)- 017/Section 3A
HCV Viral Load	1. Real Time Polymerase Chain Reaction (PCR). Abbott m2000 as documented in HS/JP/WI(MB:10)- 017/Section 2
HCV Viral Load	2. Real Time Polymerase Chain Reaction (PCR). Alinity as documented in HS/JP/WI(MB:10)- 017/Section 3A
HBsAg HBs Confirmatory Anti HCV	Chemiluminescent Microparticle Immuno Assay (CMIA), Architect i1000SR As documented in HTPG/JP/SER/AK-02
HIV Ag/Ab	None
Anti HIV-1 and/or HIV-2 Passive Particle	Particle Agglutination As documented in HTPG/JP/SER/AK-03
Agglutination (HIV % PA)	None
Rapid Plasma Reagin (RPR)	Flocculation As documented in HTPG/JP/SER/AK-04
Treponema Pallidum Particle Agglutination (TPPA)	Particle Agglutination As documented in HTPG/JP/SER/AK-05
Anti Streptolysin O Test (ASOT)	Latex Agglutination As documented in HTPG/JP/SER/AK-07
Leptospirosis Rapid Test	Lateral Flow Immunochromatography As documented in HTPG/JP/SER/AK-08
Anti Mycoplasma Pneumoniae Antibody	Particle Agglutination As documented in HTPG/JP/SER/AK-09
Alanine aminotransferase (ALT) (Serum)	IFCC (without P-5-P). Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SAS MEC@IIUM/PALM/INT-W10203
Albumin (Serum)	Bromocresol Green. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-W10203

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Alkaline Phosphatase (ALP)	IFCC (pNPP , AMP). Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
AST (GOT) (Serum)	IFCC (without P-5-P). Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
Chloride (Serum)	Indirect ISE. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
Cholesterol (Serum)	Enzymatic. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
Creatinine (Serum)	Method A (Kinetic Jaffe compensated). Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
D Bilirubin (Serum)	Diazotization. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
HDL (Serum)	Enzymatic. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
Potassium (Serum)	Indirect ISE. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203

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Sodium (Serum)	Indirect ISE. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI0203
Total Bilirubin (Serum)	Diazotization. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
Total Protein (Serum)	Colorimetric Blue Violet (Biuret method)
Triglyceride (Serum)	Enzymatic. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI10203
Urea (Serum)	Kinetic urease. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI0203
Hepatitis B screening / Antigen and antibody detection: 4- Hepatitis Bs Antigen Qs Hepatitis Bs Antibody 3- Hepatitis B core Total ab	Chemiluminescence Immunoassay, Beckman Coulter / Method as documented in SAS MEC@IIUM/PALM/MIC-W10203 SASMEC@IIUM/PALM/MIC-WP10
4- Hepatitis B Confirmatory Ag	None
Hepatitis C / Antibody detection	Chemiluminescence Immunoassay, Beckman Coulter / Method as documented in
Hepatitis C / Antibody detection	SASMEC@IIUM/PALM/MIC-W10203 SASMEC@IIUM/PALM/MIC-WP10
Human Immunodeficiency Virus screening and confirmatory / Antigen/antibody detection	Chemiluminescence Immunoassay, Beckman Coulter / Method as documented in SAS MEC@IIUM/PALM/MIC-W10203 SASMEC@IIUM/PALM/MIC-WP10
Dengue NS? antigen, IgM & IgG Detection / Antigen Antibody detection	Fluorescence immunoassay, SD Biosensor / Method as documented in SASMEC@IIUM/PALM/MIC-W10401 SASMEC@IIUM/PALM/MIC-W10206

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Urine	IgE	Fluorescence-linked Immunosorbent Assay
	IgE	(FLISA) and microarray technology as
	IgE	documented in LP912335523
	Opiate	Rapid visual Immunoassay as documented in
	None	DWL/LAB/LWI/001/004
	None	Beckman Coulter AU480 based on EIA principles
	None	as documented in DWL/LAB/LWI/001/002
	Cannabinoids	Rapid visual Immunoassay as documented in
	None	Beckman Coulter AU480 based on EIA principles
	None	as documented in DWL/LAB/LWI/001/003 Test method using DUS R-720 gen ne od nd ep ethod eage oda croscopic as
	Urine HCG	documented in Rapid test strip method by visual interpretation as
	None	documented in DWL/LAB/LWI/001/010
	Morphine Drug Test	Homogenous Enzyme Immunoassay Technique as
	None	Documented in (MTM 05)
	Cannabinoids Drug Test	Homogenous Enzyme Immunoassay Technique as
	None	Documented in (MTM 04)
	Cannabinoids and Morphine Drug Test	Jus check Drug Test Device by Chromatographic Immunoassay as documented in (MTM 10)
	Urine Full Examination	Analyzer ACON MISSION U-500, DIRUI H-500)
	(FEME)	as Documented in (MTM 06A, MTM 06B)
	Urine Pregnancy Test	Uni check Test Strip by Rapid Chromatography
	None	Immunoassay as Documented in (MTM 08)
	Screening for Opiates	Kinetic interaction of microparticles in a solution
	(OPI	(KIMS) by using Roche Cobas Pro as
	None	documented in PL/WI/CP-02: Index 15.0 and
	None	17.0
	None	Rapid Test Strip Method using visual

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None	interpretation as documented in
None	PL/WI/CP-02; Index 9.0
Screening for	Kinetic interaction of
Cannabinoids (THC)	microparticles in a solution
None	(KIMS) by using Roche Cobas
None	Pro as
None	documented in PL/WI/CP-02:
None	Index 15.0 and
None	18.0.
None	Rapid Test Strip Method by visual
None	interpretation
None	as documented in PL/WI/CP-02;
Urine FEME	Index 8.0
None	Test Strip Method using Mission
None	U500 urine
None	analyser and microscopy method
None	as documented
Urine Pregnancy Test	in Index 4.0, 11.0 and 12.0
None	Rapid Test Strip Method by visual
None	interpretation
Urine Calcium	as documented in PL/WI/CP-02;
None	Index 5.0
Urine Chloride	NM-BAPTA / Cobas Pro c503 as
None	documented
Urine Creatinine	in
(random and 24 hrs)	Ion Selective Electrode, Indirect
None	Potentiometry
Urine Albumin/	/ Cobas Pro c503 as documented
Microalbumin	in
Urine Magnesium	HSJ/JP/CP/TM-A16
None	Kinetic Colorimetric-Jaffe /
None	Cebas-6000-6504
Urine Phosphate,	Cobas Pro c503 as
Inorganic	documented in HSJ/JP/CP/TM-
Urine Potassium	A12
	Immunoturbidimetric / Cobas Pro
	c503 as
	documented in HSJ/JP/CP/TM-
	A02
	Colorimetric Endpoint (Xylidyl
	Blue) / Cobas
	Pro c503 as documented in
	HSJ/JP/CP/TM-
	A19
	Molybdate, UV / Cobas Pro c503
	as
	documented in HSJ/JP/CP/TM-
	A21
	Ion Selective Electrode, Indirect
	Potentiometry

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None	/ Cobas Pro c503 as documented in
None	HSJ/JP/CP/TM-A16
Urine Protein, Total	Benzathonium Chloride / Cobas Pro c503 as
None	documented in HSJ/JP/CP/TM-A24
Urine Sodium	Ion Selective Electrode, Indirect Potentiometry
None	/ Cobas Pro c503 as documented in
None	HSJ/JP/CP/TM-A16
Urine Urea	Urease / Cobas Pro c503 as documented in
None	HSJ/JP/CP/TM-A26
Urine Uric Acid	Uricase / Cobas Pro c503 as documented in
None	HSJ/JP/CP/TM-A25
Urine Pregnancy Test	ACRO BIOTECH, INC hCG Pregnancy Rapid Test Dipstick (Urine) / Rapid Chromatographic Immunoassay
Urine Pregnancy Test	Document Quality HSBAS/PAT/INT/TPM/09
Culture & Sensitivity	Manual test and automation VITEK2 / BIOMIC /
Culture & Sensitivity	Urine analyzer for cell count / MALDITOF
Culture & Sensitivity	Quality Document
Culture & Sensitivity	1 Investigation of Urine Specimen (HSBAS/PAT/
Culture & Sensitivity	MIK/ BAK/TM 16)
Culture & Sensitivity	2. Antimicrobial Susceptibility Testing
Culture & Sensitivity	(HSBAS/PAT/ MIK/ BAK/TM 23)
Culture & Sensitivity	Malditof (HSBAS/PAT/ MIK/ BAK/ TM-29)
Culture & Sensitivity	Bacterial Identification
Culture & Sensitivity	(HSBAS/PAT/ MIK/ ID/ TM/01)
Culture & Sensitivity	Biomic (HSBAS/PAT/ MIK/ BAK/TM 32)
Culture & Sensitivity	Vitek2 (HSBAS/PAT/ MIK/ BAK/TM 30)
Culture & Sensitivity	Penyediaan Media (HSBAS/PAT/ MIK/ AK 01)
Morphine	Morphine based on test strips as documented in
None	Promedi MTM_05_Morphine test strip
Cannabinoids	Cannabinoids based on test strips as

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None	documented in Promedi MTM_04_Canabis test
None	strip
Urine Examination	Urine Examination as documented in Promedi
None	MTM_06_Urine (GLU/PRO)
Urine Pregnancy Test	Urine Pregnancy Test (UPT) Test Strip based on
(UPT)	Rapid Chromatographic immunoassay as
None	documented in Promedi MTM_08_Urine
None	Pregnancy Test.
Opiates	Enzyme Immunoassay Method as
Opiates	documented in MV-SOP-CP-01
THC	Enzyme Immunoassay Method as
THC	documented in MV-SOP-CP-01
Urine Pregnancy Test	Rapid Chromatographic
Urine Pregnancy Test	Immunoassay as documented in
Urine Pregnancy Test	MV-SOP-CP-01
Determination Of SG, pH,	Urinalysis test strips as documented
Leucocytes, Nitrite, Protein,	in MV-SOP-CP-03
Glucose, Ketone, Urobilinogen,	None
Bilirubin, Blood (Test Strips for	None
Analysis)	None
Screening for Morphine	Rapid Visual Immunoassay using Strip as
None	Documented in MXL/WI- 08
Screening for	Rapid Visual Immunoassay using Strip as
Cannabinoids	Documented in MXL/WI-09
Urine for Biochemistry	Urinalysis Strip using Dirui H500 analyzer as
(Albumin & Glucose)	documented in MXL/WI-06 Urine FEME DIRUI
None	H-500 reader & Urine FEME Visually
Urine Pregnancy Test	Rapid Visual Immunoassay using Strip as
(UPT)	documented in MXL/WI-07 Urine
None	Pregnancy Test
Pregnancy Test	Urine Pregnancy Test as documented in
None	BPLab/UPT-01 -" Rapid chromatographic
None	immunoassay
Urine examination	Urine Examination as documented

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(Microscopy and	BPLab/UFEME-01 Biochemistry
Biochemistry)	-” multi-
None	parameter test strip
None	Urine Microscopy as documented in
Opiates Screening	BPLab/UFEME-02
Opiates Screening	Test Strip, Cut-off: 300ng/mL Method / as
Cannabinoids Screening	documented in MLS/LAB/WI.1.0; Index 1.0
Cannabinoids Screening	Test Strip, Cut-off: 50ng/mL Method / as
Amphetamine Screening	documented in MLS/LAB/WI.1.0; Index 1.0
Amphetamine Screening	Test Strip, Cut-off: 1000ng/mL Method / as
Urine Feme	documented in MLS/LAB/WI.1.0; Index 1.0
Urine Feme	Test Strip, 10 tests parameter Method / Mission
Urine Feme	U500 Urine Analyzer as documented in
Urine Feme	MLS/LAB/WI.1.0; Index 2.0
Urine Feme	MLS/LAB/WI.1.0; Index 3.0
Urine Feme	MLS/LAB/WI.1.0; Index 6.0
Urine Feme	Microscopic Method / Microscope as
Urine Feme	documented in MLS/LAB.WI.1.0; Index 4.0
Urine Pregnancy Test	Test Strip, Sensitivity: Method / as
Urine Pregnancy Test	documented in MLS/LAB/WI.1.0; Index 5.0
Urine FEME	Test Strip, 10 tests parameter method /
Urine FEME	Mission U500 Urine Analyzer as documented
Urine FEME	in JH/WI/07-Rev 6
Urine FEME	Microscopic, 10X & 40X (low and high-power
Urine FEME	field) method / Microscope as documented in
Urine FEME	JH/WI/07-Rev 6; clause 7.1.7.2
Opiates Screening	Test Strip, Cut-off: 300ng/mL method as
Opiates Screening	documented in JH/WI/08-Rev 6; clause 8.2
Cannabinoids Screening	Test Strip, Cut-off: 50ng/mL method as
Cannabinoids Screening	documented in JH/WI/08-Rev 6; clause 8.1

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Urine Pregnancy Test	Test Strip, Sensitivity: method as
Urine Pregnancy Test	documented in JH/WI/09-Rev 5
Opiate / Morphine	Opiate Assay Homogenous Enzyme
Opiate / Morphine	Immunoassay DIRUI CS-400 Auto-Chemistry
Opiate / Morphine	Analyser as documented in MTM-CP-09
Cannabinoids	Cannabinoids Assay -" Homogeneous Enzyme
Cannabinoids	Immunoassay DIRUI CS-400 Auto-Chemistry
Cannabinoids	Analyser as documented in MTM-CP-10
Urine Chemistry (Protein	Manual method with DIRUI 2
& Glucose)	items (Protein &
& Glucose)	Glucose) test strips as
Urine Pregnancy Test	documented in MTM-CP-12
Urine Pregnancy Test	Manual method with the Ecotest HCG-U11
Urine Pregnancy Test	Human Chorionic Gonadotropin Rapid Test
Urine Pregnancy Test	Strips as documented in MTM-CP-11
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	Immunochromatographic / Visual Observation of
and Cannabinoids	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	Immunoassay Method/Manual as documented in

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Benzodiazepines	GPQD/BI/SOP-21
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

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Urine Pregnancy Test	Test (GPQD/MIC/SOP-33)
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

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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/JF/WI (CP;07)-016 Urine Full Examination on IRICELL iChem
Urinalysis	VELOCITY Analyzer
Urinalysis	Sediment Urine microscopy as documented in HS/JF/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/JF/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

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UFEME	Test strip method using DiaLab Urine Analyser based on reagent strip method and microscopic method as documented in DS/LAB/LW 1/003
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-WI10314 SASMEC@IIUM/PALM/MIC-WI0315 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	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

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Malaria Antigen	Malaria ELISA Enzyme Linked Immunosorbent
Screening Test (ELISA)	Assay / ELISA Semi Automated Instrument -"
Screening Test (ELISA)	Washer, Reader and Incubator as Documented
Screening Test (ELISA)	in NML_SOP_04
Blood film for Malaria	Blood Film Malaria Parasite (Thick and Thin
Parasite	Film) / Giemsa Staining of Thick and thin Blood
Parasite	Film as Documented in NUL_SOP_05
ABO Blood	Forsure, Test Tube as Documented in (MTM 01)
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

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None	MINDRAY BC6200 AND MINDRAY SC120
2. Slide Review	Automated blood film preparation and staining
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	Westergreen method / Automated Jokoh Smart
sedimentation rate (ESR)	Rate as Documented in HSJ/PAT/HEM/WI07
None	ESR USING JOKOH SMART RATE
HbA1c	High Performance Liquid Chromatography / BIORAD Variant II Turbo
HbA1c	Document Quality HSBAS/PAT/INT/TPM/23
Full Blood Picture	Manual test as documented in
Full Blood Count and	Sysmex XN1000 as documented in
Uric Acid	Method: Immunoturbidimetric
Uric Acid	Machine: Beckman Coulter AU480
Uric Acid	Procedures are as documented in
Uric Acid	MV-SOP-CP-01
ABO Blood Grouping	Tube Method as documented in
ABO Blood Grouping	MV-SOP-HEM-02
Full Blood Count	Machine: Beckman Coulter DxH 500
Full Blood Count	Procedure as documented in
Full Blood Count	MV-SOP-HEM-01
ELISA For Malaria Specific	Enzyme Linked Immunosorbent Assay
Antigen	(ELISA) as documented in
Antigen	MV-SOP-MIC-03
ABO & Rhesus Blood	Tube Method as documented in MXL/WI-04
Grouping	Blood Grouping
Malaria Antigen	ELISA method / ELISA reader (Chromate) as
None	documented in MXL/WI-05 Malaria Parasite

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ABO & Rh D Blood	Manual tube method as documented in Blood
Grouping	Bank Procedure Manual chapter BP020
Cross-matching	Column Agglutination (gel card) method as
Cross-matching	documented in Blood Bank Procedure Manual
Cross-matching	chapter BP026
Direct Antiglobulin Test	Column agglutination (gel card) method as
Direct Antiglobulin Test	documented in Blood Bank procedure Manual
Direct Antiglobulin Test	chapter BP085
Antibody screening /	Column agglutination (gel card) method as
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

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Malaria Parasite	Blood smear thick and thin method as
Malaria Parasite	documented in JH/WI/04-Rev 4; clause 4.2
iii Hematocrit	None
iv. Mean Cell Volume Mean Vv	b Coulter Principle, CN-Free Hemoglobinometry, Flowcytometry / UniCel DxH 800 Coulter as documented in
Corpuscular	None
Haemoglobin	None
Mean Cell vi	None
Haemoglobin	None
Concentration	None
vii Platelet	None
viii Red Cell	None
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

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None	HA/HAEM/MRKH/CYT/WI-13v1
None	HA/HAEM/MRKH/CYT/WI-17v2
None	HA/HAEM/MRKH/CYT/WI-18v2
None	HA/HAEM/MRKH/CYT/WI-19 v1
None	HA/HAEM/MRKH/CYT/WI-20v1
Fluorescence In-situ	FISH method /Thermobrite-StatSpin,Abbott Molecular
Hybridization (FISH)	/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-,ç 22 AL
Lymphocyte	nan
Monocytes	nan
Neutrophils	nan
Eosinophils	nan
Basophils	nan

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Red Blood Cell	nan
Hemoglobin	nan
Hematocrit	nan
Mean Cell	nan
Volume	nan
Mean	nan
Corpuscular	nan
Hemoglobin	nan
Concentration	nan
Red Cell	nan
Distribution Width	nan
Platelets	nan
Mean Platelet	nan
Volume	nan
Malaria Antigen	Reader and Washer (ELISA Method)
Malaria Antigen	GBLISA-R Microplate Reader
Malaria Antigen	GBLISA-W Microplate Washer
Malaria Slide	Thick & Thin Blood Film by Microscopy Method
(Outsource)	nan
Glycated Haemoglobin	Clover A1c _{-g} Self
Glycated Haemoglobin	On-Call Multipro Analyzer
Malaria Antigen	Malaria ELISA Enzyme Linked Immunosorbent
Screening Test (ELISA)	Assay / ELISA Semi Automated Instrument -"
Screening Test (ELISA)	Washer, Reader and Incubator as documented
Screening Test (ELISA)	in Q@LAB_SOP_04
Blood film for Malaria	Blood Film Malaria Parasite (Thick and Thin
Parasite	Film) / Giemsa Staining of Thick and Thin Blood
Parasite	Film as documented in Q LAB_SOP_05
Cyclosporin	Immuno-electrochemiluminescence/Cobas e801
Cyclosporin	(6) as documented in electronically in Cobas e801
G6PD screen	Fluorescence Method/Manual as documented in G6PD
G6PD screen	SOP (GPQD/HAE/SOP-55)
Cytomegalovirus PCR	as documented in GPQD/MOL/SOP-14
Mumps IgG & IgM	Chemiluminescence Immunoassay/Diasorin XL (2)
Mumps IgG & IgM	as documented in Operator Manual
Measles IgG & IgM	Chemiluminescence Immunoassay/Diasorin XL (2)

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Measles IgG & IgM	as documented in Operator Manual
Varicella IgG & IgM	Chemiluminescence Immunoassay/Diasorin XL (2)
Varicella IgG & IgM	as documented in Operator Manual
HBA1C	DCCT/NGSP/ Roche Cobas (c501, c311) as
HBA1C	documented electronically in Roche COBAS
HBA1C	LINK/Roche COBAS
Urine Pregnancy Test	UPT Test strip method as documented in
Urine Pregnancy Test	GPQD/BI/SOP-11
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

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

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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 (5-part hematology analyser)	Method: Combination of Impedance, SLS Hb, Flowcytometry, and calculation
(5-part hematology analyser)	Analysers: 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

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

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Eosinophil?s Count	SASMEC@IIUM/PALM/INT-W10204
Basophils?s Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
Basophils?s Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205
NE# Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
NE# Count	SASMEC@IIUM/PALM/INT-W10204
LY# Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
LY# Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205
MO# Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
MO# Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205
EO# Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
EO# Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205
BA# Count	VCSn Analysis. Analyzer Beckman Coulter DXH 800 and DXH 900 as documented in
BA# Count	SASMEC@IIUM/PALM/INT-W10204 SASMEC@IIUM/PALM/I NT-W10205
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	HBsAg	Manual ELISA method as documented in DWL/LAB/LW1/003/003 &
	Syphilis Screening	Carbon Antigen Particle Agglutination method as documented in DWL/LAB/LWI/003/001
	TPPA	Particle Agglutination pattern as documented in
	None	DWL/LAB/LW1/003/010
	HIV	Manual ELISA method as documented in
	None	DWL/LAB/LW1/003/004 & DWL/LAB/LW1/003/011
	& II Ab	HIV based on ELISA method as documented in
	None	Promedi MTM_02_HIV
	HBs Antigen	ELISA method as documented in Promedi
	None	MTM_03
	Hepatitis B screening	documented in MKAJB-D-03-WI01
	Hepatitis B screening	HBsAg Confirmatory Test as documented
	Hepatitis B screening	in
	Molecular Flavivirus	Detection of Flavivirus by (RT-PCR as
	Molecular Flavivirus	documented in MKAJB-D-03-WI05
	Treponema Pallidum	Particle Agglutination Method / Manual as
	Particle Agglutination	Documented in MKAKB/BP/SER/SOP-01
	(TPPA) Antibody	None
	Alanine	Modified Wroblewski and LaDue, modified
	Aminotransferase (ALT)	IFCC, with P5P method using Dimension RXL
	Aminotransferase (ALT)	Max as documented in Biochemistry
	Aminotransferase (ALT)	Procedure Manual chapter CP010
	Albumin	Bromocresol Purple (BCP) dye binding method
	Albumin	using Dimension RXL Max as documented in

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Albumin	Biochemistry Procedure Manual chapter
Albumin	CP015
Alkaline Phosphatase	Bowers and McComb, IFCC standardization
(ALP)	method using Dimension RXL Max as
(ALP)	documented in Biochemistry Procedure
(ALP)	Manual chapter CP020
Amylase	Hydrolysis of CNPG3 method using Dimension
Amylase	RXL Max as documented in Biochemistry
Amylase	Procedure Manual chapter CP025
Aspartate	Modified IFCC, with PSP method using
aminotransferase (AST)	Dimension RXL Max as documented in
aminotransferase (AST)	Biochemistry Procedure Manual chapter
aminotransferase (AST)	CP035
Bilirubin (Total)	Modified Diazo method using Dimension RXL
Bilirubin (Total)	Max as documented in Biochemistry
Bilirubin (Total)	Procedure Manual chapter CP135
Calcium	Modification of the calcium o-cresolphthalein
Calcium	complexone (OCPC) reaction method using
Calcium	Dimension RXL Max as documented in
Calcium	Biochemistry Procedure Manual chapter
Calcium	CP040
Chloride	Indirect Integrated Multisensor Technology
Chloride	(IMT) method using Dimension RXL Max as
Chloride	documented in Biochemistry Procedure
Chloride	Manual chapter CP075
Cholesterol (Total)	Enzymatic cholesterol oxidase, esterase,
Cholesterol (Total)	peroxidase method using Dimension RXL Max
Cholesterol (Total)	as documented in Biochemistry Procedure

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Cholesterol (Total)	Manual chapter CP050
Creatine Kinase MB	Modified IFCC CK Primary Reference method
(CKMB)	using Dimension RXL Max as documented in
(CKMB)	Biochemistry Procedure Manual chapter
Creatine Kinase (CK)	IFCC Primary Reference method using
Creatine Kinase (CK)	Dimension RXL Max as documented in
Creatine Kinase (CK)	Biochemistry Procedure Manual chapter
Creatine Kinase (CK)	CP055
Creatinine	Kinetic Alkaline picrate (modified Jaffe) method
Creatinine	using Dimension RXL Max as documented in
Creatinine	Biochemistry Procedure Manual chapter
Creatinine	CP065
Gamma-Glutamyl	L-y-glutamyl-3-carboxy-4-nitroanilide substrate
Transferase (GGT)	reaction/IFCC method using Dimension RXL
Transferase (GGT)	Max as documented in Biochemistry
Transferase (GGT)	Procedure Manual chapter CP085
Glucose	Hexokinase method using Dimension RXL
Glucose	Max as documented in Biochemistry
Glucose	Procedure Manual chapter CP090
HDL Cholesterol	PEG-modified Cholesterol esterase, oxidase,
HDL Cholesterol	peroxidase, end point method using Dimension
HDL Cholesterol	RXL Max as documented in Biochemistry
HDL Cholesterol	Procedure Manual chapter CP037
Lactate Dehydrogenase	Lactate to pyruvate, nicotinamide adenine
(LDH)	dinucleotide (NAD) method using Dimension
(LDH)	RXL Max as documented in Biochemistry

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(LDH)	Procedure Manual chapter CP100
Phosphate (Inorganic)	Phosphomolybdate method using Dimension
Phosphate (Inorganic)	RXL Max as documented in Biochemistry
Phosphate (Inorganic)	Procedure Manual chapter CP125
Potassium	Indirect Integrated Multisensor Technology
Potassium	(IMT) method using Dimension RXL Max as
Potassium	documented in Biochemistry Procedure
Potassium	Manual chapter CP075
Sodium	Indirect Integrated Multisensor Technology
Sodium	(IMT) method using Dimension RXL Max as
Sodium	documented in Biochemistry Procedure
Sodium	Manual chapter CP075
Total Protein	Biuret reaction method using Dimension RXL
Total Protein	Max as documented in Biochemistry
Total Protein	Procedure Manual chapter CP140
Triglyceride	Glycerol Phosphate Oxidase reaction method
Triglyceride	using Dimension RXL Max as documented in
Triglyceride	Biochemistry Procedure Manual chapter
Triglyceride	CP145
Urea	Urease/glutamate dehydrogenase method
Urea	using Dimension RXL Max as documented in
Urea	Biochemistry Procedure Manual chapter
Urea	CP150
Uric Acid	Uricase method using Dimension RXL Max as
Uric Acid	documented in Biochemistry Procedure
Uric Acid	Manual chapter CP155
FEME	Semi-Automated reflectance spectroscopy
FEME	method using Clinitek Advantus as

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FEME	documented in Microbiology Procedures
FEME	Manual VP208
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 (ALT)	nan
Aspartate	nan
Transaminase (AST)	nan
Total protein (TP)	nan
Albumin	nan
Total Bilirubin	nan
Alkaline	nan
Phosphate	nan
Gamma	nan
Glutamyl	nan
Transferase (GGT)	nan
Lipid Profile	nan
Total e	nan
Cholesterol	nan
High Density	nan
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

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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)
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
Creatinine	Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)

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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)
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)

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	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)

NOTE :