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LABORATORY LOCATION: (PERMANENT LABORATORY) 	Makmal Kesihatan Awam Ipoh Jalan Jelapang, 30200 Ipoh, Perak. , 30200, PERAK MALAYSIA
ACCREDITED SINCE :	19 MARCH 2025
FIELD(S) OF MEDICAL TESTING :	CHEMICAL PATHOLOGY 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	Makmal Kesihatan Awam Ipoh Jalan Jelapang, 30200 Ipoh, Perak. , 30200, Perak
FIELD(S) OF MEDICAL TESTING :	CHEMICAL PATHOLOGY, MEDICAL MICROBIOLOGY

SCOPE OF MEDICAL TESTING : CHEMICAL PATHOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Plasma	Glucose	Automation / Cobas 6000 analyzer series module C501 as documented in MKAI/SP/BKM/WI-01
	Activated Partial	Clotting method by Sysmex CA104 as
	Thromboplastin Time	documented in Haematology Procedure Manual
	(APTT)	Chapter YP151
	Prothrombin Time (PT)	Clotting method by Sysmex CA104 as
	None	documented in Haematology Procedure Manual
	None	Chapter YP152
	INR	Photo-optical clot reaction/CS2500 (2) as documented in PT/INR SOP (GPQD/HAE/SOP-33)
	APTT	Photo-optical clot reaction/CS2500 (2) as documented in APTT SOP (GPQD/HAE/SOP-37)
	Fibrinogen	Photo-optical clot reaction/CS2500 (2) as documented
	Fibrinogen	in Fibrinogen SOP (GPQD/HAE/SOP-35)
	Lupus Anticoagulant	Photo-optical clot reaction/CS2500 (2) as documented
	Lupus Anticoagulant	in SOP (GPQD/HAE/SOP-1)
Antithrombin III	Photo-optical clot reaction/CS2500 (2) as documented	
Antithrombin III	in Antithrombin II] GPQD/HAE/SOP-2	

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Protein C	Photo-optical clot reaction/CS2500 (2) as documented
Protein C	in Protein C GPQD/HAE/SOP-4
Protein S	Photo-optical clot reaction/CS2500 (2) as documented
Protein S	in Protein S GPQD/HAE/SOP-3
Factor V Leiden	Photo-optical clot reaction/CS2500 (2) as documented
Mutation	in Factor V Leiden GPQD/HAE/SOP-6
HIV-1 RNA Quantitative	Real-Time PCR/Alinity M System (1 as
HIV-1 RNA Quantitative	documented in SOP (GPQD/MOL/SOP-19
HBV DNA Quantitative	Real-Time PCR/Alinity M System (1 as
HBV DNA Quantitative	documented in SOP (GPQD/MOL/SOP-19
HCV RNA Quantitative	Real-Time PCR/Alinity M System (1 as
HCV RNA Quantitative	documented in SOP (GPQD/MOL/SOP-19
HCV RNA	Real-Time PCR/Alinity M System (1 as
HCV RNA	documented in SOP (GPQD/MOL/SOP-19
Iron	Photometry hexokinase/Cobas c311 as
Iron	documented electronically in Roche COBAS
Iron	LINK/COBAS c311
Glucose	Photometry hexokinase/Cobas c311 as
Glucose	documented electronically in Roche COBAS
Glucose	LINK/COBAS c311
INR	Clotting scattered light detection method/Sysmex
APTT	Ca-660 as documented in GPQD/HAE-SSOP-
APTT	43/CA600 Operating Procedure
Blood Group	GPQD/HAE/SOP-47 and GPQD/HAE/SOP-48
DAT	Direct agglutination/Diamed Gel-card as
DAT	documented in GPQD/HAE/SOP-45 and
DAT	GPQD/HAE/SOP-48

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Antibody Screen	Agglutination with Panel cells/ Diamed Gel-card as
Antibody Screen	documented in
Antibody Screen	GPQD/HAE/SOP-53 and
Antibody Screen	GPQD/HAE/SOP-48
Cross-match	Major cross match/ Diamed Gel-card as documented
Cross-match	in GPQD/HAE/SOP-46 and
Cross-match	GPQD/HAE/SOP-48
Glucose	Colourimetric hexokinase/Cobas c501 as =
Glucose	documented electronically in
Glucose	Roche COBAS
Glucose	LINK/COBAS 6000
Lactate	Colourimetry Enzymatic/Cobas c501 as
Lactate	documented electronically in
Lactate	Roche COBAS
Lactate	LINK/COBAS 6000
INR	Electromagnetic sensor/CA104 as documented in
INR	ST art4 SOP
INR	(GPQD/HAE/SOP-42)
APTT	Electromagnetic sensor/CA 104 as documented in
APTT	ST art4 SOP
APTT	(GPQD/HAE/SOP-42)
Glucose	Spectrophotometry/Cobas c311 as documented
Glucose	electronically in Roche C311
Procalcitonin	Immuno-electrochemiluminescence/Cobas e144 as
Procalcitonin	documented electronically in
Procalcitonin	Roche COBAS
INR	Clotting method-turbo
INR	densitometric photo-optical
INR	measuring principle/Sysmex CA 104 as
INR	documented in
INR	(GPQD/HAE/SOP-42)
G6PD Screen	nan
G6PD Screen	Fluorescence Immunoassay as documented in D
D-Dimer	Dimer SOP
D-Dimer	(GPQD/HAE/SOP-36)
Blood Culture	9240) fluorescent method as documented in
Blood Culture	SL/LAB/S3.1 and BD BACTEC 9240 Manual

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HIV Genotypic Resistance -"	Polymerase Chain Reaction (PCR) and
Protease and Reverse Transcriptase	Population-based Genome Sequencing / Eppendorf Mastercycler X50s thermal cycler
Transcriptase	as documented in
Transcriptase	IMR/IDRC/VIRO/SOP/HIV/10
HIV Genotypic Resistance -"	Polymerase Chain Reaction (PCR) and
Integrase	Population-based Genome Sequencing /
Integrase	Eppendorf Mastercycler X50s thermal cycler
Integrase	as documented in
Integrase	IMR/IDRC/VIRO/SOP/HIV/11
Homocysteine (Total)	Documented in IMR/SDC/BC/SOP-4 / Agilent 1260 HPLC
Homocysteine (Total)	with Fluorescence Detector
Carnitine (Total & Free)	Enzymatic end-point as documented in
Carnitine (Total & Free)	IMR/SDC/BC/SOP-3/ Spectrophotometer
Glycosaminoglycans (GAG) Quantitation	Complex with Dimethylmethylene Blue (DMB) as documented in IMR/SDC/BC/SOP-5/ Spectrophotometer
GAG Separation	High Resolution Electrophoresis as
GAG Separation	documented in IMR/SDC/BC/SOP-6/ Multiphor
GAG Separation	II Electrophoresis System
Organic Acids	Derivatisation with BSTFA as documented in
Organic Acids	IMR/SDC/BC/SOP-9/GCMS Agilent 7890B
Orotic Acids	Reverse-phase Chromatography as
Orotic Acids	Documented in IMR/SDC/BC/SOP-10/ Agilent 1200 HPLC
Orotic Acids	with Diode Array Detector
Coagulation:	Clotting (optical) Method/Sysmex CS1600 As documented in
Prothrombin time (PT)	HSNI/PAT/HM/TPM/VER3/2019/02 HSNI/PAT/HM/AK/VER3/2019/04

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Activated Partial	HSNI/PAT/HM/TPM/VER3/2019/03
Thromboplastin Time (APTT)	HSNI/PAT/HM/AK/VER3/2019/04
Ammonia	GLDH ? UV on Beckman Coulter AU5800 as documented in HS/JP/W1 (CP;07)-024 Test on Beckman Coulter AU5800
Lactate	Enzymatic LOD-POD on Beckman Coulter AU5800 as documented in HS/JP/W1 (CP;07)- 024 Test on Beckman Coulter AU 5800
Mycophenolic Acid	EMIT on Viva E (Siemens) as documented in HS/JP/W1 (CP;07)- 014 Test on VIVA E (Siemens)
Prothrombin Time (PT)	Clotting Activity HS/JP/W1(HM:08)- 007
Activated Partial Thromboplastin Time (APTT)	Clotting Activity HS/JP/W1(HM:08)- 007
Fibrinogen Estimations (FIB)	Clotting Activity HS/JP/W1(HM:08)- 007
International Normalised Ratio (INR)	Clotting Activity HS/JP/W1(HM:08)- 007
D-Dimer Quantitative	Change in turbidity of a microparticle suspension measured by photometry
Coagulation Mixing Test: APTT/PT	Clotting Activity HS/JP/W1(HM:08)- 017
Ammonia	Glutamate Dehydrogenase as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
Lactate (LacticAcid)	Lactic Acid to Pyruvate (L to P) as documented in Arahan Kerja Pengendalian Ujian Pada Alinity (HTPG/JP/CHM/AK-02)
PT/ INR	Mechanical clot detection
PT/ INR	Analyser: Stago Compact/ Max All methods and specifications as documented in HTPG/JP/HEM/AK-04
APTT	Mechanical clot detection
APTT	Analyser: Stago Compact/ Max All methods and specifications as documented in HTPG/JP/HEM/AK-05
Fibrinogen	Clauss method Analyser: Stago Compact/ Max All methods and specifications as documented in HTPG/JP/HEM/AK-06

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	D-Dimer	Turbidimetry Analyser: Stago Compact/ Max All methods and specifications as documented in HTPG/JP/HEM/AK-07
	Glucose (Plasma)	Hexokinase Method. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-WI0203
Serum	Total Cholesterol Triglyceride	Automation / Cobas 6000 analyzer series module C501 as documented in MKAI/SP/BKM/WI-01
	HDL Cholesterol	None
	LDL Cholesterol	None
	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 MKAI/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 MKAI/SP/BKM/WI-02
	Dengue typing	Molecular Detection / RT qPCR / As
	Dengue typing	documented in MKAI/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	

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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
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

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Albumin	Colourimetry - Tris Buffer (IFCC w/o pyridoxal phosphate)/Cobas c702 (4) as documented
Albumin	electronically in Roche Cobas LINK/Cobas c702
Albumin	Colourimetry - AMP Buffer - Rate (IFCC)/Cobas c702(4) as documented electronically in Roche Cobas LINK/Cobas c702
Alkaline Phosphatase	mmunoelectrochemiluminescence/Cobas c502 (4) as documented electronically in Roche Cobas LINK/Cobas c502
Alkaline Phosphatase	mmunoelectrochemiluminescence/Cobas e801 (6) as documented electronically in Roche Cobas LINK/Cobas e801
Alpha-1-Antitripsin	mmunoturbidimetric/Cobas c502 (4) as documented electronically in Roche Cobas LINK/ Cobas c502
Alpha-1-Antitripsin	mmunoelectrochemiluminescence/Cobas e801 (6) as documented electronically in Roche Cobas LINK/Cobas e801
Anti-Mullerian	mmunoturbidimetric/Cobas c502 (4) as documented electronically in Roche Cobas LINK/ Cobas c502
Hormone (AMH)	mmunoturbidimetric/Cobas c502 (4) as documented electronically in Roche Cobas LINK/ Cobas c502
Hormone (AMH)	mmunoturbidimetric/Cobas c502 (4) as documented electronically in Roche Cobas LINK/ Cobas c502
Apo A	mmunoturbidimetric/Cobas c502 (4) as documented electronically in Roche Cobas LINK/ Cobas c502
Apo A	mmunoturbidimetric/Cobas c502 (4) as documented electronically in Roche COBAS LINK/COBAS c502
Apo A	mmunoturbidimetric/Cobas c502 (4) as documented electronically in Roche COBAS LINK/COBAS c502
Apo B	Colourimetry - Tris Buffer (IFCC w/o pyridoxal phosphate)/Cobas c702(4) as documented electronically in Roche COBAS LINK/COBAS c702
Apo B	Colourimetry - Tris Buffer (IFCC w/o pyridoxal phosphate)/Cobas c702(4) as documented electronically in Roche COBAS LINK/COBAS c702
Apo B	Colourimetry - Enzymatic (PEPC)/Cobas c502(4) as documented electronically in Roche COBAS LINK/COBAS c502
Aspartate	Colourimetry - Tris Buffer (IFCC w/o pyridoxal phosphate)/Cobas c702(4) as documented electronically in Roche COBAS LINK/COBAS c702
Aminotransferase	Colourimetry - Enzymatic (PEPC)/Cobas c502(4) as documented electronically in Roche COBAS LINK/COBAS c502
Aminotransferase	Colourimetry - Enzymatic (PEPC)/Cobas c502(4) as documented electronically in Roche COBAS LINK/COBAS c502
Bicarbonate	Immunochemiluminescence/Cobas e801 (6) as documented electronically in Roche Cobas LINK/Cobas e801
Bicarbonate	Immunochemiluminescence/Cobas e801 (6) as documented electronically in Roche Cobas LINK/Cobas e801
Bicarbonate	Immunochemiluminescence/Cobas e801 (6) as documented electronically in Roche Cobas LINK/Cobas e801
Beta Cross Laps	Colourimetry - " Diazonium Salt/Cobas c702 (4) as documented electronically in Roche Cobas LINK/ Cobas c702
Beta Cross Laps	Colourimetry - " Diazonium Salt/Cobas c702 (4) as documented electronically in Roche Cobas LINK/ Cobas c702
Beta Cross Laps	Colourimetry - " Diazonium Salt/Cobas c702 (4) as documented electronically in Roche Cobas LINK/ Cobas c702
Total Bilirubin	Colourimetry - " Diazonium Salt/Cobas c702 (4) as documented electronically in Roche Cobas LINK/ Cobas c702
Total Bilirubin	Colourimetry - " Diazonium Salt/Cobas c702 (4) as documented electronically in Roche Cobas LINK/ Cobas c702
Total Bilirubin	Colourimetry - " Diazonium Salt/Cobas c702 (4) as documented electronically in Roche Cobas LINK/ Cobas c702

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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
FBHCG	Immunochemiluminescence/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	Immunochemiluminescence/Cobas e801
Growth Hormone	(6) as documented electronically in Roche Cobas
Growth Hormone	LINK/Cobas e801
Total HCG	Immunochemiluminescence/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/

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Homocysteine	Cobas c702
IGA	Immunoturbidimetric/Cobas c502 (4) as
IGA	documented electronically in Roche Cobas LINK/
IGA	Cobas c502
IGE	Immunochemiluminescence/Cobas c502
IGE	(4) as documented electronically in Roche Cobas
IGE	LINK/Cobas c502
IGF-1	Immunochemiluminescence/Cobas e801
IGF-1	(6) as documented electronically in Roche Cobas
IGF-1	LINK/Cobas e801
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	Immunochemiluminescence/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	Immunochemiluminescence/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

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Lipoprotein (a)	Immunoturbidimetric/Cobas c502 (4) as documented
Lipoprotein (a)	electronically in Roche Cobas LINK/Cobas c502
Lp(a) NT-pro BNP	Immunochemiluminescence/Cobas e801 (6)
Lp(a) NT-pro BNP	as documented electronically in Roche Cobas LINK/
Lp(a) NT-pro BNP	Cobas e801
Oestradiol	Immunochemiluminescence/Cobas e801 (6)
Oestradiol	as documented electronically in Roche Cobas
Oestradiol	LINK/Cobas e801
Progesterone	Immunochemiluminescence/Cobas e801 (6)
Progesterone	as documented electronically in Roche Cobas
Progesterone	LINK/Cobas e801
Prolactin	Immunochemiluminescence/Cobas e801 (6)
Prolactin	as documented electronically in Roche Cobas LINK/
Prolactin	Cobas e801
Testosterone	Immunochemiluminescence/Cobas e801 (6)
Testosterone	as documented electronically in Roche Cobas LINK/
Testosterone	Cobas e801
Thyroglobulin	Immunochemiluminescence/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	Immunochemiluminescence/Cobas e801

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Vitamin B12	(6) as documented electronically in Roche Cobas
Vitamin B12	LINK/Cobas e801
Vitamin D	Immunochemiluminescence/Cobas e801(6)
Vitamin D	as documented electronically in Roche Cobas
Vitamin D	LINK/Cobas e801
PAPP-A (Pregnancy Associate Plasma	Immunochemiluminescence/Cobas e801
Protein A)	(6) as documented electronically in Roche Cobas
Rheumatoid Factor	LINK/Cobas e801
Rheumatoid Factor	Immunoturbidimetric/Cobas c702 (4) as
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

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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
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 antibodies	ELISA/Euroimmune (1) as documented in 1-2P-(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 (ASOT)	Immunoturbidimetric/Cobas c502(4) as documented 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 antibodies	Immunochemiluminescence/Cobas e801(6) as documented electronically in Roche COBAS
antibodies	LINK/COBAS e801
P24Ag	Immunochemiluminescence/Cobas e801(6) as

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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)
Chlamydia IgM	ELISA/Manual as documented in GPQD/SER/SOP-5
Chlamydia IgM	Chemiluminescence Immunoassay/Diasorin XL (2) as
Chlamydia IgG	documented in Operator Manual
AFP	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

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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
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)

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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
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

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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,
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	Immunochemiluminescence/Cobas e601 as
AFP	documented electronically in Roche COBAS
AFP	LINK/COBAS 6000
CEA	Immunochemiluminescence/Cobas e601 as
CEA	documented electronically in Roche COBAS
CEA	LINK/COBAS 6000
PSA Total	Immunochemiluminescence/Cobas e601 as
PSA Total	documented electronically in Roche COBAS
PSA Total	LINK/COBAS 6000
Free T3	Immunochemiluminescence/Cobas e601 as
Free T3	documented electronically in Roche COBAS
Free T3	LINK/COBAS 6000
Free T4	Immunochemiluminescence/Cobas e601 as

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Free T4	documented electronically in Roche COBAS
Free T4	LINK/COBAS 6000
TSH	Immunochemiluminometric assay/Cobas e601 as
TSH	documented electronically in Roche COBAS
TSH	LINK/COBAS 6000
HCG	Immunochemiluminometric assay/Cobas e601 as
HCG	documented electronically in Roche COBAS
HCG	LINK/COBAS 6000
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

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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
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

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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 COBA\
Amylase	LINK/COBAS 6000
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	mmunoelectrochemiluminescenc e/Cobas e411 as
AFP	documented electronically in Roche COBAS E411
CEA	mmunoelectrochemiluminescenc e/Cobas e411 as
CEA	documented electronically in Roche COBAS E411
PSA - Total	mmunoelectrochemiluminescenc e/Cobas e411 as
PSA - Total	documented electronically in Roche COBAS E411

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Free T3	Immunochemiluminometric assay/Cobas e411 as
Free T3	documented electronically in Roche COBAS E411
Free T4	Immunochemiluminometric assay/Cobas e411 as
Free T4	documented electronically in Roche COBAS E411
TSH	Immunochemiluminometric assay/Cobas e411
TSH	as documented electronically in Roche COBAS
TSH	E411
Anti-HBs	Immunochemiluminometric assay as documented
Anti-HBs	documented electronically in Roche E411
HBsAg	Immunochemiluminometric assay as documented
HBsAg	documented electronically in Roche E411
Anti-HIV	Immunochemiluminometric assay as documented
Anti-HIV	documented electronically in Roche E411
Dengue Ab IgG/IgM	nan
Dengue NS1	Fluorescence Immunoassay/F200 as documented
Dengue NS1	documented 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))

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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:
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)

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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)
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)

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Alpha feto protein	Immunoenzymatic assay on Dx1800 Beckman Coulter as documented in HS/JP/WI (CP:07)- 027 Test on Dx1800 Immunoassay Analyzer
Alpha-1 antitrypsin	Immunoturbidimetry on Beckman Coulter AU5800 as documented in HS/JP/WI (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
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

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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
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	Immuno-inhibition 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

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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
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

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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
Triiodotyronine, 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

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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)	Flocculation 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
HBV Viral Load	2. Real Time Polymerase Chain Reaction (PCR). Alinity as documented in HS/JP/W1(MB:10)- 017/Section 3A
HCV Viral Load	1. Real Time Polymerase Chain Reaction (PCR). Abbott m2000 as documented in HS/JP/W1(MB:10)- 017/Section 2
HCV Viral Load	2. Real Time Polymerase Chain Reaction (PCR). Alinity as documented in HS/JP/W1(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

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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
Alkaline Phosphatase (ALP)	IFCC (pNPP , AMP). Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-W10203
AST (GOT) (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
Chloride (Serum)	Indirect ISE. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-W10203
Cholesterol (Serum)	Enzymatic. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-W10203

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Creatinine (Serum)	Method A (Kinetic Jaffe compensated). Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SAS MEC@IIUM/PALM/INT-W10203
D Bilirubin (Serum)	Diazotization. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-W10203
HDL (Serum)	Enzymatic. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-W10203
Potassium (Serum)	Indirect ISE. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-W10203
Sodium (Serum)	Indirect ISE. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-W10203
Total Bilirubin (Serum)	Diazotization. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-W10203
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-W10203
Urea (Serum)	Kinetic urease. Analyzer Beckman Coulter AU680 (labelled as AU680-A and AU680-B) as documented in SASMEC@IIUM/PALM/INT-W10203

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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
IgE	Fluorescence-linked Immunosorbent Assay
IgE	(FLISA) and microarray technology as
IgE	documented in LP912335523

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Aspirate (nps) /	SARS-COV-2 Detection	None
Aspirate (ops)	SARS-COV-2 Detection	None
Bacteriology	None	None
	nan	nan
	nan	nan
	nan	nan
	Chlamydia Trachomatis	Real-time PCR by Microlab NIMBUS (2) as
	nan	nan
	nan	nan
Fluid, Urine, Csf,	None	None
	Acid Fast Bacilli (AFB) Direct	Microscopic examination with

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Isolates From Stool /	Salmonella Serotyping	documented in MKAI/SP/BAC/WI-07	
Larvae And Other	Fluorescence Microscopy Method	microscope as documented in	
Media	Media Preparation	Manual method as documented in	
	Media Preparation	MKAI/SP/BAC/WI-03	
Molecular Biology	SARS-COV-2 Detection	Molecular Detection / RT As	
Nasopharyngeal	SARS-COV-2 Detection	documented in MKAI/SP/MOL/WI-04	
	E Gene	Time PCR System / As documented in MG-	
Oropharyngeal	SARS-COV-2 Detection	None	
	Orf 1 a/b Gene	None	
Rectal Swab	Salmonella Serotyping	None	
Relevant Clinical	Fluorescence Microscopy Method	MKAI/SP/TB/WI-02	
Salmonella Species	Salmonella Serotyping	Slide agglutination method as	
Samples	Culture procedure for	Conventional method as documented	
	Mycobacterium using conventional method	in MKAI/SP/TB/WI-05	
	Culture procedure for Mycobacterium using BACTEC.	documented in MKAI/SP/TB/WI-06	
	MGIT 960	None	
	Egg-based media preparation	Manual method as documented in	
	Egg-based media preparation	MKAI/SP/TB/WI-04	
	Storage and Maintenance of Mycobacterium species cultures	Skimmed Milk as documented in MKAI/SP/TB/WI-07	
	Examination-acid fast	(GPQD/MIC/SOP-79)	
	Microscopic examination	documented in GPQD/MIC/SOP-80 and	
	AFB Stain	GPQD/MIC/WI-12)	
	Sputum, Bronchial	Acid Fast Bacilli (AFB) Smear	Slide method as documented in
	Stool And Rectal	Enteric Pathogen Culture	Manual culture as documented in
	Swab	Enteric Pathogen Culture	MKAI/SP/BAC/WI-01
Smear and Staining		Gram Stain as documented in	
Smear and Staining		MKAI/SP/BAC/WI-02	
Bacteria Identification		Automation / Vitec2 as documented	
Bacteria Identification		in MKAI/SP/BAC/WI-04	
Antibiotic Sensitivity Test		Manual Disk Diffusion as documented	
Antibiotic Sensitivity Test		in MKAI/SP/BAC/WI-05	
Maintenance and Preservation of Culture		Glycerol as documented in MKAI/SP/BAC/WI-06	
Covid Rapid Antigen		Rapid Chromatographic Immunoassay/Manual as	
Covid Rapid Antigen		documented in GPQD/MOL/SOP-5	

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Tb	Salmonella Serotyping	None
Tissue, Gastric	Smear Examination using	Fluorescence staining / Fluorescence
Washing, Pleural	Preparation	MKAI/SP/TB/WI-01

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