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LABORATORY LOCATION: (PERMANENT LABORATORY) 	Jabatan Patologi, Hospital Pulau Pinang Jalan Resideni, 10990 George Town, Pulau Pinang. , 10990, PULAU PINANG MALAYSIA
ACCREDITED SINCE :	19 MARCH 2025
FIELD(S) OF MEDICAL TESTING :	CYTOPATHOLOGY HISTOPATHOLOGY CHEMICAL PATHOLOGY HAEMATOLOGY HAEMATOLOGY (MOLECULAR) MEDICAL MICROBIOLOGY (BACTERIOLOGY) MEDICAL MICROBIOLOGY (SEROLOGY) MEDICAL MICROBIOLOGY (VIROLOGY)

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	Jabatan Patologi, Hospital Pulau Pinang Jalan Resideni, 10990 George Town, Pulau Pinang. , 10990, Pulau Pinang
FIELD(S) OF MEDICAL TESTING :	CYTOPATHOLOGY, HISTOPATHOLOGYCHEMICAL PATHOLOGYHAEMATOLOGYHAEMATOLOGY (MOLECULAR)MEDICAL MICROBIOLOGY (BACTERIOLOGY)MEDICAL MICROBIOLOGY (SEROLOGY)MEDICAL MICROBIOLOGY (VIROLOGY)

SCOPE OF MEDICAL TESTING : CYTOPATHOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods,Specifications/ Equipment/Techniques Used
Gynaecological Specimens	Gynaecological Cytology Examination	Specimen Preparation and Staining (Manual method) Processing of conventional pap smears slides (HPP/PAT/CY/WI/05) + Papanicolaou Staining Automated Method (HPP/PAT/CY/WI/11) To prepare Pap smears using Liquid Based Cytology (HPP/PAT/CY/WI/09) + Papanicolaou Staining Automated Method (HPP/PAT/CY/WI/11)
Non-gynaecological Specimens	Non-Gynaecological Cytology Examination	Specimen Preparation and Routine Staining (Autostainer / Manual) Method as documented Preparation of cytological smears from body fluids (excluding CSF and urine specimens) (HPP/PAT/CY/WI/02) Preparation of cytological smears from CSF and urine using cytocentrifugation method (HPP/PAT/CY/WI/03) To prepare smears from sputum using Liquid Based Cytology Method (HPP/PAT/CY/WI/06)

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	Non-Gynaecological Cytology Examination	Preparation of Carnoy's Fixative (HPP/PAT/CY/WI/19) Papanicolaou Stain (HPP/PAT/CY/WI/11) May Grunwald Giemsa (HPP/PAT/CY/WI/13)
Fine Needle Aspirates	FNA Cytology Examination	Specimen Preparation and Routine Staining Preparation of Carnoy's Fixative (HPP/PAT/CY/WI/19) Papanicolaou Stain (HPP/PAT/CY/WI/11) May Grunwald Giemsa (HPP/PAT/CY/WI/13)

SCOPE OF MEDICAL TESTING : HISTOPATHOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Surgical Pathology Specimens	Histology Examination	Specimen Preparation and Staining (Manual method) HPP/PAT/HP/WI/10 Haematoxylin and Eosin
Intraoperative Frozen Section For Fresh Tissue Specimens And Biopsies	Histology Examination	Specimen Preparation and Routine Staining (Manual) Frozen Section (HPP/PAT/HP/WI/07) Rapid H&E Staining (HPP/PAT/HP/WI/11)
Histochemical Investigations	Histochemical Examination	Specimen Preparation and Routine Staining (Manual)
Immunohistochemical Investigations	Immunohistochemistry and Immunofluorescence	Specimen Preparation and Routine Staining Immunohistochemical (Dako Omnis - Basic) HPP/PAT/HP/WI/46 Immunohistochemical (Dako Omnis - Advanced) HPP/PAT/HP/WI/47 Immunofluorescence (HPP/PAT/HP/WI/41)

SCOPE OF MEDICAL TESTING : CHEMICAL PATHOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
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Plasma / Serum / Urine	Electrolytes	Ion Selective Electrodes-Indirect Method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI-038 using COBAS PRO ISE analytical unit
Plasma/ Serum	Alkaline Phosphatase	P-nitrophenyl Phosphate method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
	Alanine AminoTransferase	NADH (with P-5'-P) method as documented in HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
	Albumin	Bromocresol Purple method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
	Aspartate AminoTransferase	NADH (with P-5'-P) method as documented in HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
	Bilirubin direct	Diazonium Salt method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
	Bilirubin total	Diazonium Salt method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
	Cholesterol	Enzymatic & colorimetric method Using Cholesterol Oxidase as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
	Cholinesterase	Colorimetric using Butyrylthiocholine method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
	Creatine Kinase	NAC and IFCC recommended method using Immidazole buffer method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit

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Complement Component C3	Immunoturbidimetric method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Complement Component C4	Immunoturbidimetric method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
C-Reactive Protein	Particle enhanced immunoturbidimetric method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Gamma Glutamyltransferase	IFCC Enzymatic colorimetric assay with γ -glutamyltransferase as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
HDL-C	Direct measuring of HDL with Enzymatic method (without pre-treatment) as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Iron	FerroZine method (without deproteinization) as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Lactate Dehydrogenase	IFCC Lactate to pyruvate method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Triglycerides	Enzymatic, colorimetric method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Total Protein	Biuret method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit

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Transferrin	Immunoturbidimetric method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Free Triiodothyronine	ECL/Competition method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
Free Thyroxine	ECL/Competition method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
Thyroid Stimulating Hormones	ECL/Sandwich method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
Ferritin	ECL/Sandwich method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
?HCG	ECL/Sandwich method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
Luteinizing Hormone	ECL/Sandwich method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
Follicle-Stimulating Hormone	ECL/Sandwich method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
Prolactin	ECL/Sandwich method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
?1-Fetoprotein	ECL/Sandwich method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit

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Carcinoembryonic Antigen	ECL/Sandwich method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
Cancer Antigen 125	ECL/Sandwich method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
Total Prostate-Specific Antigen	ECL/Sandwich method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
Cortisol	ECL/Competition method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
CA 19.9	ECL/Sandwich method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
Acetaminophen	Homogenous enzyme immunoassay method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Amikacin	KIMS as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Carbamazepine	Homogeneous microparticle agglutination immunoassay as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Digoxin	KIMS as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 COBAS PRO c503 analytical unit
Gentamicin	KIMS as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit

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Lithium	Colorimetric test method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analyzer
Methotrexate	Homogeneous enzyme immunoassay as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Phenobarbital	KIMS as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Phenytoin	KIMS as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Salicylate	Enzymatic Salicylate hydroxylase method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Theophylline	KIMS as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Valproic Acid	Homogeneous enzyme immunoassay as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Vancomycin	KIMS as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Thyroglobulin	ECL/Sandwich method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
Anti Thyroglobulin	ECL/Competitive method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit

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	Anti Thyroid specific peroxidase	ECL/Competitive method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
	Vitamin B12	ECL/Competitive method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
	Folate	ECL/Competitive method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
	High sensitivity Troponin T	ECL/Sandwich method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
	Procalcitonin	ECL/Sandwich method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
	Estradiol	ECL/Competitive method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
	Progesterone	ECL/Competitive method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
	Testosterone	ECL/Competitive method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
Urine/ Csf	Albumin	Immunoturbidimetric method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit

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Plasma/ Serum/ Urine	Amylase	Enzymatic using 4,6-ethylidene-(G7) pnitrophenyl-(G1)-alpha-D-Maltoheptaoside method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
	Magnesium	Xylidyl blue method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
	Phosphate	Phosphomolybdate method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Plasma	Ammonia	Enzymatic using Glutamate Dehydrogenase method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Plasma/ Serum/ Urine	Calcium	NM-BAPTA method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
	Creatinine	Kinetic Alkaline Picrate method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
	Urea	Urease method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
	Uric Acid	Uricase method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
	Osmolality	Freezing point as documented in HPP/PAT/CP/WI-037 using Advanced MicroOsmometer Model Osmo1
Plasma/ Serum/ Urine/ Csf	Glucose	Enzymatic UV, Hexokinase method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit

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Plasma/ Csf	Lactate	Enzymatic (L-lactate is oxidized to pyruvate) method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Urine/ Csf	Total Protein	Benzethonium Chloride method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO c503 analytical unit
Edta Whole Blood	Cyclosporine	ECL/Competition method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
	Tacrolimus	ECL/Competition method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI 038 using COBAS PRO e801 analytical unit
Whole Blood	Glycated Hemoglobin	HPLC method as documented in HPP/PAT/CP/WI-034 using Biorad D100
	Blood Gases, Arterial (ABG)	Electrode as documented in HPP/PAT/CP/WI063 Using Radiometer ABL 90 Flex Plus
	Blood Gases, Venous (VBG)	Electrode as documented in HPP/PAT/CP/WI063 Using Radiometer ABL 90 Flex Plus
Urine	Urine Biochemistry	Semi-automated using reflectance photometry method as documented in HPP/CP/WI/-058 by using ERBA Laura analyzer and automated using image analysis method as documented in HPP/PAT/CP/WI – 059 by using ERBA Laura XL analyzer
	Urine Microscopy	Automated using sedimentation and digital Imaging method as documented in HPP/PAT/CP/WI – 059 by using ERBA Laura XL analyzer
Serum	Protein Electrophoresis (Paraprotein)	Agarose gel electrophoresis/densitometry method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI-053 using SebiaHydrasis 2 Scan Analyser

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	Paraprotein Typing (Immunofixation)	Agarose gel immuno-electrophoresis method as documented in HPP/PAT/CP/QP-01 and HPP/PAT/CP/WI-053 using SebiaHydrasis 2 Scan Analyser
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SCOPE OF MEDICAL TESTING : HAEMATOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Whole Blood	Full Blood Count Reticulocyte Counts NRBC Counts	Analysis of WBCs with Flow Cytometer, Haemoglobin using colorimetric Method, RBC and PLT Using electrical impedance method with Mindray BC6200 method as documented in HPP/PAT/HM/WI/71
	Full Blood Picture	Procedure as documented in HPP/PAT/HM/WI/04
	Hb Analysis	Capillary electrophoresis using Sebia Capillary 2 Flex-Piercing Method as documented in HPP/PAT/HM/WI/50) HPLC method using HPLC Biorad Variant II Method as documented in HPP/PAT/HM/WI/52)
	Erythrocyte Sedimentation Rate	Erythrocyte Sedimentation Rate using MIX-RATE ESR Analyzer A modification base on the Westergren Method as documented in HPP/PAT/HM/WI/26 and HPP/PAT/HM/WI41
	CD4/CD8 Enumeration	Flow Cytometry Quantitation of CD4/CD8 in absolute and percentage count using Beckman Coulter AQUIOS CL Flow Cytometer Method as documented in HPP/PAT/HM/WI/70
Plasma	PT/APTT Fibrinogen	Optical Clot Detection Method by using ACL Top 550 as documented in HPP/PAT/HM/WI/80

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	Manual PT/APTT	Manual method as documented in HPP/PAT/HM/WI/54
	Factor VIII Assay Factor IX Assay	Optical Clot Detection Method by using ACL TOP 550 as documented in HPP/PAT/HM/WI/11
	Lupus Anticoagulant Assay	Optical Clot Detection Method by using ACL TOP 550 as documented in HPP/PAT/HM/WI/55
	Mixing Test Inhibitor Assay	Optical Clot Detection Method by using ACL TOP 550 as documented in: i) HPP/PAT/HM/WI/56 ii) HPP/PAT/HM/WI/12
	Von Willebrand Factor (Antigen & Ristocetin Cofactor)	Turbidimetric Immunoassay method for vWF:Ag and Agglutination method for vWF: Ricof by using ACL TOP 550 as documented in HPP/PAT/HM/WI/63
	D-Dimer Quantitative Assay	Turbidimetric Immunoassay method by using ACL TOP 550 as documented in HPP/PAT/HM/WI/81
Bone Marrow Aspirate	BMA	Routine Staining (MGG and Perls), Cytochemical Staining and Other Special Staining Procedures as documented in: i) HPP/PAT/HM/WI/05 ii) HPP/PAT/HM/WI/07 iii) HPP/PAT/HM/WI/08
Blood On Filter Paper/ Edta Whole Blood	G6PD Screening Tests	Fluorescence Spot Test as documented in the HPP/PAT/HM/WI/24
Whole Blood Bone Marrow Aspirate	Leukaemia and Lymphoma Immunophenotyping	Flowcytometry method using Facs Canto II as documented in HPP/PAT/HM/WI/58

SCOPE OF MEDICAL TESTING : HAEMATOLOGY (MOLECULAR)

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

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Whole Blood	Full Blood Count Reticulocyte Counts NRBC Counts	Analysis of WBCs with Flow Cytometer, Haemoglobin using colorimetric Method, RBC and PLT Using electrical impedance method with Mindray BC6200 method as documented in HPP/PAT/HM/WI/71
	Full Blood Picture	Procedure as documented in HPP/PAT/HM/WI/04
	Hb Analysis	Capillary electrophoresis using Sebia Capillary 2 Flex-Piercing Method as documented in HPP/PAT/HM/WI/50) HPLC method using HPLC Biorad Variant II Method as documented in HPP/PAT/HM/WI/52)
	Erythrocyte Sedimentation Rate	Erythrocyte Sedimentation Rate using MIX-RATE ESR Analyzer A modification base on the Westergren Method as documented in HPP/PAT/HM/WI/26 and HPP/PAT/HM/WI41
	CD4/CD8 Enumeration	Flow Cytometry Quantitation of CD4/CD8 in absolute and percentage count using Beckman Coulter AQUIOS CL Flow Cytometer Method as documented in HPP/PAT/HM/WI/70
Plasma	PT/APTT Fibrinogen	Optical Clot Detection Method by using ACL Top 550 as documented in HPP/PAT/HM/WI/80
	Manual PT/APTT	Manual method as documented in HPP/PAT/HM/WI/54
	Factor VIII Assay Factor IX Assay	Optical Clot Detection Method by using ACL TOP 550 as documented in HPP/PAT/HM/WI/11
	Lupus Anticoagulant Assay	Optical Clot Detection Method by using ACL TOP 550 as documented in HPP/PAT/HM/WI/55
	Mixing Test Inhibitor Assay	Optical Clot Detection Method by using ACL TOP 550 as documented in: i) HPP/PAT/HM/WI/56 ii) HPP/PAT/HM/WI/12

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	Von Willebrand Factor (Antigen & Ristocetin Cofactor)	Turbidimetric Immunoassay method for vWF:Ag and Agglutination method for vWF: Ricof by using ACL TOP 550 as documented in HPP/PAT/HM/WI/63
	D-Dimer Quantitative Assay	Turbidimetric Immunoassay method by using ACL TOP 550 as documented in HPP/PAT/HM/WI/81
Bone Marrow Aspirate	BMA	Routine Staining (MGG and Perls), Cytochemical Staining and Other Special Staining Procedures as documented in: i) HPP/PAT/HM/WI/05 ii) HPP/PAT/HM/WI/07 iii) HPP/PAT/HM/WI/08
Blood On Filter Paper/ Edta Whole Blood	G6PD Screening Tests	Fluorescence Spot Test as documented in the HPP/PAT/HM/WI/24
Whole Blood Bone Marrow Aspirate	Leukaemia and Lymphoma Immunophenotyping	Flowcytometry method using Facs Canto II as documented in HPP/PAT/HM/WI/58

SCOPE OF MEDICAL TESTING : HAEMATOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Whole Blood	Molecular Quantitation Major BCR-ABL (p210)	Quantitative detection of BCR-ABL1 chromosomal translocation mRNA transcript (types e13a2/b2a2 or e14a2/b3a2) by using polymerase chain reaction using Cepheid Genexpert System as documented in HPP/PAT/HM/WI/77

SCOPE OF MEDICAL TESTING : HAEMATOLOGY (MOLECULAR)

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

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Whole Blood	Molecular Quantitation Major BCR-ABL (p210)	Quantitative detection of BCR-ABL1 chromosomal translocation mRNA transcript (types e13a2/b2a2 or e14a2/b3a2) by using polymerase chain reaction using Cepheid Genexpert System as documented in HPP/PAT/HM/WI/77
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SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY)

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Cerebrospinal Fluid	Macroscopy	Processing Cerebrospinal Fluid as documented in HPP/PAT/MM/WI/001 Gram stain and Indian Ink as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/001
Body Fluid	Microscopy	Gram Stain and Indian Ink as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/002
	Cell Count	As documented in HPP/PAT/MM/WI/116
Peritoneal Dialysis Fluid	Macroscopy	Visual Observation Gram Stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/003
Eye Swab	Microscopy	Direct Smear and Gram Stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/004
Stool/rectal Swab	Macroscopy	Visual Observation
	Culture	As documented in HPP/PAT/MM/WI/005
	Clostridium Difficile Toxin	Detection of Toxin A&B of Clostridium Difficile Using Immunochromatographic Rapid Test as documented in HPP/PAT/MM/WI/005

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Respiratory Tract Specimens	Microscopy	Direct Smear and Gram Stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/006
Blood	Microscopy	Direct Smear and Gram stain as documented in HPP/PAT/MM/WI/020
	Culture	Processing Blood Specimens and Body Fluids (BACTEC FX) as documented in HPP/PAT/MM/WI/127
Ear Swabs	Culture	As documented in HPP/PAT/MM/WI/010
Urine	Culture	As documented in HPP/PAT/MM/WI/011
Pus/swab	Microscopy	Direct Smear and Gram Stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/012
Urogenital Swabs	Microscopy	Direct smear and Gram stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/014
Genital Swabs	Microscopy	Direct smear and Gram stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/015
Tissue	Microscopy	Direct smear and Gram stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/013
	Anaerobic Culture	As documented in HPP/PAT/MM/WI/088
Positive Cultures From Specimens	Identification of Bacteria	Biochemical Tests as documented in HPP/PAT/MM/WI/021 Identification using MALDI-TOF of as documented in HPP/PAT/MM/WI/155 Serotyping as documented in HPP/PAT/MM/WI/022
	In Vitro Antibiotic Susceptibility Testing	Antibiotic Sensitivity Testing as documented in HPP/PAT/MM/WI/026

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Serum	Serology Detection of Antibodies to Treponema pallidum	In vitro Passive Particle Agglutination Assay as documented in HPP/PAT/MM/WI/048 Macroscopic non-treponemal flocculation card test as in Rapid Plasma Reagin (RPR) Test as documented in HPP/PAT/MM/WI/039.
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SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (SEROLOGY)

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Cerebrospinal Fluid	Macroscopy	Processing Cerebrospinal Fluid as documented in HPP/PAT/MM/WI/001 Gram stain and Indian Ink as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/001
Body Fluid	Microscopy	Gram Stain and Indian Ink as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/002
	Cell Count	As documented in HPP/PAT/MM/WI/116
Peritoneal Dialysis Fluid	Macroscopy	Visual Observation Gram Stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/003
Eye Swab	Microscopy	Direct Smear and Gram Stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/004
Stool/rectal Swab	Macroscopy	Visual Observation
	Culture	As documented in HPP/PAT/MM/WI/005

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	Clostridium Difficile Toxin	Detection of Toxin A&B of Clostridium Difficile Using Immunochromatographic Rapid Test as documented in HPP/PAT/MM/WI/005
Respiratory Tract Specimens	Microscopy	Direct Smear and Gram Stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/006
Blood	Microscopy	Direct Smear and Gram stain as documented in HPP/PAT/MM/WI/020
	Culture	Processing Blood Specimens and Body Fluids (BACTEC FX) as documented in HPP/PAT/MM/WI/127
Ear Swabs	Culture	As documented in HPP/PAT/MM/WI/010
Urine	Culture	As documented in HPP/PAT/MM/WI/011
Pus/swab	Microscopy	Direct Smear and Gram Stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/012
Urogenital Swabs	Microscopy	Direct smear and Gram stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/014
Genital Swabs	Microscopy	Direct smear and Gram stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/015
Tissue	Microscopy	Direct smear and Gram stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/013
	Anaerobic Culture	As documented in HPP/PAT/MM/WI/088

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Positive Cultures From Specimens	Identification of Bacteria	Biochemical Tests as documented in HPP/PAT/MM/WI/021 Identification using MALDI-TOF of as documented in HPP/PAT/MM/WI/155 Serotyping as documented in HPP/PAT/MM/WI/022
	In Vitro Antibiotic Susceptibility Testing	Antibiotic Sensitivity Testing as documented in HPP/PAT/MM/WI/026
Serum	Serology Detection of Antibodies to <i>Treponema pallidum</i>	In vitro Passive Particle Agglutination Assay as documented in HPP/PAT/MM/WI/048 Macroscopic non-treponemal flocculation card test as in Rapid Plasma Reagin (RPR) Test as documented in HPP/PAT/MM/WI/039.

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY)

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Cerebrospinal Fluid	Macroscopy	Processing Cerebrospinal Fluid as documented in HPP/PAT/MM/WI/001 Gram stain and Indian Ink as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/001
Body Fluid	Microscopy	Gram Stain and Indian Ink as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/002
	Cell Count	As documented in HPP/PAT/MM/WI/116
Peritoneal Dialysis Fluid	Macroscopy	Visual Observation Gram Stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/003

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Eye Swab	Microscopy	Direct Smear and Gram Stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/004
Stool/rectal Swab	Macroscopy	Visual Observation
	Culture	As documented in HPP/PAT/MM/WI/005
	Clostridium Difficile Toxin	Detection of Toxin A&B of Clostridium Difficile Using Immunochromatographic Rapid Test as documented in HPP/PAT/MM/WI/005
Respiratory Tract Specimens	Microscopy	Direct Smear and Gram Stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/006
Blood	Microscopy	Direct Smear and Gram stain as documented in HPP/PAT/MM/WI/020
	Culture	Processing Blood Specimens and Body Fluids (BACTEC FX) as documented in HPP/PAT/MM/WI/127
Ear Swabs	Culture	As documented in HPP/PAT/MM/WI/010
Urine	Culture	As documented in HPP/PAT/MM/WI/011
Pus/swab	Microscopy	Direct Smear and Gram Stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/012
Urogenital Swabs	Microscopy	Direct smear and Gram stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/014
Genital Swabs	Microscopy	Direct smear and Gram stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/015
Tissue	Microscopy	Direct smear and Gram stain as documented in HPP/PAT/MM/WI/020
	Culture	As documented in HPP/PAT/MM/WI/013
	Anaerobic Culture	As documented in HPP/PAT/MM/WI/088

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Positive Cultures From Specimens	Identification of Bacteria	Biochemical Tests as documented in HPP/PAT/MM/WI/021 Identification using MALDI-TOF of as documented in HPP/PAT/MM/WI/155 Serotyping as documented in HPP/PAT/MM/WI/022
	In Vitro Antibiotic Susceptibility Testing	Antibiotic Sensitivity Testing as documented in HPP/PAT/MM/WI/026
Serum	Serology Detection of Antibodies to <i>Treponema pallidum</i>	In vitro Passive Particle Agglutination Assay as documented in HPP/PAT/MM/WI/048 Macroscopic non-treponemal flocculation card test as in Rapid Plasma Reagin (RPR) Test as documented in HPP/PAT/MM/WI/039.

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY)

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Parasitology Blood For Malaria Parasites	BFMP	As documented in HPP/PAT/MM/WI/115
Serum	Qualitative Determination of IgM or IgG Antibodies to <i>Toxoplasma Gondii</i>	ECLIA (electrochemiluminescence immunoassay) for IgM and IgG assay using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/134 ii) HPP/PAT/MM/WI/135 iii) HPP/PAT/MM/WI/176

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Mycobacteriology Suspected Tb, Infection Specimens	Microscopy	Direct Smear Staining as documented in HPP/PAT/MM/WI/0112 Acid Fast Bacilli Smear Fluorescent Microscopy in HPP/PAT/MM/WI/124 Direct Smear Staining using AS-316T BASO autostainer equipment as documented in Operation of TB Autostainer in HPP/PAT/MM/WI/178
	Culture	Using BD MGIT 960 as documented in HPP/PAT/MM/WI/113 Using conventional method as documented in HPP/PAT/MM/WI/O27

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (SEROLOGY)

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Parasitology Blood For Malaria Parasites Serum	BFMP Qualitative Determination of IgM or IgG Antibodies to Toxoplasma Gondii	As documented in HPP/PAT/MM/WI/115 ECLIA (electrochemiluminescence immunoassay) for IgM and IgG assay using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/134 ii) HPP/PAT/MM/WI/135 iii) HPP/PAT/MM/WI/176

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Mycobacteriology Suspected Tb, Infection Specimens	Microscopy	Direct Smear Staining as documented in HPP/PAT/MM/WI/0112 Acid Fast Bacilli Smear Fluorescent Microscopy in HPP/PAT/MM/WI/124 Direct Smear Staining using AS-316T BASO autostainer equipment as documented in Operation of TB Autostainer in HPP/PAT/MM/WI/178
	Culture	Using BD MGIT 960 as documented in HPP/PAT/MM/WI/113 Using conventional method as documented in HPP/PAT/MM/WI/O27

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY)

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Parasitology Blood For Malaria Parasites	BFMP	As documented in HPP/PAT/MM/WI/115
Serum	Qualitative Determination of IgM or IgG Antibodies to Toxoplasma Gondii	ECLIA (electrochemiluminescence immunoassay) for IgM and IgG assay using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/134 ii) HPP/PAT/MM/WI/135 iii) HPP/PAT/MM/WI/176

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Mycobacteriology Suspected Tb, Infection Specimens	Microscopy	Direct Smear Staining as documented in HPP/PAT/MM/WI/0112 Acid Fast Bacilli Smear Fluorescent Microscopy in HPP/PAT/MM/WI/124 Direct Smear Staining using AS-316T BASO autostainer equipment as documented in Operation of TB Autostainer in HPP/PAT/MM/WI/178
	Culture	Using BD MGIT 960 as documented in HPP/PAT/MM/WI/113 Using conventional method as documented in HPP/PAT/MM/WI/O27

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY)

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Serum	Dengue Combo NS1, IgG/IgM Rapid Test	Dengue Rapid Test RVR as documented in: i) HPP/PAT/MM/WI/128 ii) HPP/PAT/MM/WI/162 iii) HPP/PAT/MM/WI/179
	Qualitative detection of Antibodies to Human Immunodeficiency Virus type 1 (HIV-1) and/or type 2 (HIV-2)	Non cultural Methods Using Passive Particle Agglutination for Detection of Antibodies to HIV 1 and HIV 2 as documented in HPP/PAT/MM/WI/037
Plasma/serum	Qualitative Determination of HIV-1 p24 Antigen and Antibodies to HIV-1 and HIV-2	ECLIA (Electrochemiluminescence immunoassay) for HIV using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/150 ii) HPP/PAT/MM/WI/176

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	Qualitative Detection of Hepatitis B Surface Antigen (HBsAg), Hepatitis B e Antigen (HBeAg), and Antibodies to Hepatitis B e Antigen (anti-HBe)	ECLIA (Electrochemiluminescence Immunoassay) for, HBsAg Anti HBe & HBeAg using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/138 ii) HPP/PAT/MM/WI/148 iii) HPP/PAT/MM/WI/149 iv) HPP/PAT/MM/WI/176
	Qualitative determination of IgG and IgM antibodies to the Hepatitis B Core Antigen (anti-HBc)	ECLIA (Electrochemiluminescence Immunoassay) for Anti-HBc using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/M/WI/166 ii) HPP/PAT/MM/WI/176
	Quantitative Determination of Human Antibodies to Hepatitis B Surface Antigen (Anti-HBs)	ECLIA (Electrochemiluminescence Immunoassay) for Anti-HBs using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/137 ii) HPP/PAT/MM/WI/176
	Qualitative Detection of Antibodies to Hepatitis C Virus (Anti-HCV)	ECLIA (Electrochemiluminescence Immunoassay) for HCV test using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/141 ii) HPP/PAT/MM/WI/176
	Qualitative Determination of IgM or IgG Antibodies to Cytomegalovirus	ECLIA (Electrochemiluminescence Immunoassay) with Cytomegalovirus IgM and IgG test with COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/140 ii) HPP/PAT/MM/WI/142 iii) HPP/PAT/MM/WI/176
Immunology Serum	Quantitative Determination of Rheumatoid Factor	Immunoturbidimetric assay for Rheumatoid Factors-II test with COBAS PRO c503 analytical unit as documented in: i) HPP/PAT/MM/WI/163 ii) HPP/PAT/MM/WI/176

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Molecular Plasma	Quantitative Detection of Human Immunodeficiency Virus Type1 (HIV-1) RNA, Hepatitis B Virus (HBV) DNA, Hepatitis C Virus (HCV) RNA	Using ALINITY M Instrument and System Operation for detection of nucleic acid sequences & HIV-1, HBV, HCV viral load and SARS-CoV-2 PCR as documented in HPP/PAT/MM/WI/169
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SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (SEROLOGY)

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Serum	Dengue Combo NS1, IgG/IgM Rapid Test	Dengue Rapid Test RVR as documented in: i) HPP/PAT/MM/WI/128 ii) HPP/PAT/MM/WI/162 iii) HPP/PAT/MM/WI/179
	Qualitative detection of Antibodies to Human Immunodeficiency Virus type 1 (HIV-1) and/or type 2 (HIV-2)	Non cultural Methods Using Passive Particle Agglutination for Detection of Antibodies to HIV 1 and HIV 2 as documented in HPP/PAT/MM/WI/037
Plasma/serum	Qualitative Determination of HIV-1 p24 Antigen and Antibodies to HIV-1 and HIV-2	ECLIA (Electrochemiluminescence immunoassay) for HIV using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/150 ii) HPP/PAT/MM/WI/176
	Qualitative Detection of Hepatitis B Surface Antigen (HBsAg), Hepatitis B e Antigen (HBeAg), and Antibodies to Hepatitis B e Antigen (anti-HBe)	ECLIA (Electrochemiluminescence Immunoassay) for, HBsAg Anti HBe & HBeAg using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/138 ii) HPP/PAT/MM/WI/148 iii) HPP/PAT/MM/WI/149 iv) HPP/PAT/MM/WI/176
	Qualitative determination of IgG and IgM antibodies to the Hepatitis B Core Antigen (anti-HBc)	ECLIA (Electrochemiluminescence Immunoassay) for Anti-HBc using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/M/WI/166 ii) HPP/PAT/MM/WI/176

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	Quantitative Determination of Human Antibodies to Hepatitis B Surface Antigen (Anti-HBs)	ECLIA (Electrochemiluminescence Immunoassay) for Anti-HBs using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/137 ii) HPP/PAT/MM/WI/176
	Qualitative Detection of Antibodies to Hepatitis C Virus (Anti-HCV)	ECLIA (Electrochemiluminescence Immunoassay) for HCV test using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/141 ii) HPP/PAT/MM/WI/176
	Qualitative Determination of IgM or IgG Antibodies to Cytomegalovirus	ECLIA (Electrochemiluminescence Immunoassay) with Cytomegalovirus IgM and IgG test with COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/140 ii) HPP/PAT/MM/WI/142 iii) HPP/PAT/MM/WI/176
Immunology Serum	Quantitative Determination of Rheumatoid Factor	Immunoturbidimetric assay for Rheumatoid Factors-II test with COBAS PRO c503 analytical unit as documented in: i) HPP/PAT/MM/WI/163 ii) HPP/PAT/MM/WI/176
Molecular Plasma	Quantitative Detection of Human Immunodeficiency Virus Type1 (HIV-1) RNA, Hepatitis B Virus (HBV) DNA, Hepatitis C Virus (HCV) RNA	Using ALINITY M Instrument and System Operation for detection of nucleic acid sequences & HIV-1, HBV, HCV viral load and SARS-CoV-2 PCR as documented in HPP/PAT/MM/WI/169

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY)

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Serum	Dengue Combo NS1, IgG/IgM Rapid Test	Dengue Rapid Test RVR as documented in: i) HPP/PAT/MM/WI/128 ii) HPP/PAT/MM/WI/162 iii) HPP/PAT/MM/WI/179

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	Qualitative detection of Antibodies to Human Immunodeficiency Virus type 1 (HIV-1) and/or type 2 (HIV-2)	Non cultural Methods Using Passive Particle Agglutination for Detection of Antibodies to HIV 1 and HIV 2 as documented in HPP/PAT/MM/WI/037
Plasma/serum	Qualitative Determination of HIV-1 p24 Antigen and Antibodies to HIV-1 and HIV-2	ECLIA (Electrochemiluminescence immunoassay) for HIV using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/150 ii) HPP/PAT/MM/WI/176
	Qualitative Detection of Hepatitis B Surface Antigen (HBsAg), Hepatitis B e Antigen (HBeAg), and Antibodies to Hepatitis B e Antigen (anti-HBe)	ECLIA (Electrochemiluminescence Immunoassay) for, HBsAg Anti HBe & HBeAg using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/138 ii) HPP/PAT/MM/WI/148 iii) HPP/PAT/MM/WI/149 iv) HPP/PAT/MM/WI/176
	Qualitative determination of IgG and IgM antibodies to the Hepatitis B Core Antigen (anti-HBc)	ECLIA (Electrochemiluminescence Immunoassay) for Anti-HBc using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/M/WI/166 ii) HPP/PAT/MM/WI/176
	Quantitative Determination of Human Antibodies to Hepatitis B Surface Antigen (Anti-HBs)	ECLIA (Electrochemiluminescence Immunoassay) for Anti-HBs using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/137 ii) HPP/PAT/MM/WI/176
	Qualitative Detection of Antibodies to Hepatitis C Virus (Anti-HCV)	ECLIA (Electrochemiluminescence Immunoassay) for HCV test using COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/141 ii) HPP/PAT/MM/WI/176

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	Qualitative Determination of IgM or IgG Antibodies to Cytomegalovirus	ECLIA (Electrochemiluminescence Immunoassay) with Cytomegalovirus IgM and IgG test with COBAS PRO e801 analytical unit as documented in: i) HPP/PAT/MM/WI/140 ii) HPP/PAT/MM/WI/142 iii) HPP/PAT/MM/WI/176
Immunology Serum	Quantitative Determination of Rheumatoid Factor	Immunoturbidimetric assay for Rheumatoid Factors-II test with COBAS PRO c503 analytical unit as documented in: i) HPP/PAT/MM/WI/163 ii) HPP/PAT/MM/WI/176
Molecular Plasma	Quantitative Detection of Human Immunodeficiency Virus Type1 (HIV-1) RNA, Hepatitis B Virus (HBV) DNA, Hepatitis C Virus (HCV) RNA	Using ALINITY M Instrument and System Operation for detection of nucleic acid sequences & HIV-1, HBV, HCV viral load and SARS-CoV-2 PCR as documented in HPP/PAT/MM/WI/169

NOTE :