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| <b>LABORATORY LOCATION:</b><br>(PERMANENT LABORATORY)<br> | Department of Pathology, Hospital Sultanah Aminah<br>Jalan Persiaran Abu Bakar Sultan, Johor Bahru , 80000,<br>JOHOR<br>MALAYSIA |
| <b>ACCREDITED SINCE :</b>  | 06 APRIL 2025  |
| <b>FIELD(S) OF MEDICAL TESTING :</b>   | HISTOPATHOLOGY<br>CYTOPATHOLOGY<br>MEDICAL MICROBIOLOGY<br>HAEMATOLOGY<br>CHEMICAL PATHOLOGY                                     |

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

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

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| <b>CENTRAL LOCATION</b>              | Department of Pathology, Hospital Sultanah Aminah<br>Jalan Persiaran Abu Bakar Sultan, Johor Bahru , 80000,<br>Johor |
| <b>FIELD(S) OF MEDICAL TESTING :</b> | HISTOPATHOLOGY, CYTOPATHOLOGYMEDICAL<br>MICROBIOLOGYHAEMATOLOGYCHEMICAL PATHOLOGY                                    |

**SCOPE OF MEDICAL TESTING : HISTOPATHOLOGY**

| <b>Specimen Tested</b>                           | <b>Type of Test/<br/>Properties Measured/</b> | <b>Test Methods,Specifications/<br/>Equipment/Techniques Used</b>  |
|--|---|--|
| Tissue Fixed In 10% Neutral<br>Buffered Formalin | Histopathology Examination                    | <p>Using Rotary microtome LEICA RM 2245:<br/>HSA/JP/AP/HISTO/TPM-034<br/>Rotary microtome THERMO SCIENTIFIC HM 340 E &amp; HM 355 S:<br/>HSA/JP/AP/HISTO/TPM-035<br/>Semi Motorised Rotary Microtome PFM Medical:<br/>HSA/JP/AP/HISTO/TPM-047</p> <p>Semi Motorised Rotary Microtome Leica Histocore Multicut:<br/>HSA/JP/AP/HISTO/TPM-048</p> <p>Flotation bath:<br/>AP/JP/AP/HISTO/TPM-036</p> <p>Hematoxylin &amp; Eosin Stain as documented in:<br/>AP/JP/AP/HISTO/WI-007</p> <p>Using Tissue-Tek Prisma Plus Autostainer :<br/>HSA/JP/AP/HISTO/TPM-045</p> <p>Tissue-Tek Film Coverslipper:<br/>HSA/JP/AP/HISTO/TPM-046</p> |

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|  | Immunohistochemistry and in situ hybridisation | <p>Work instruction on immunohistochemical stain and in situ hybridisation as documented in: HSA/JP/AP/HISTO/WI-009</p> <p>Immunohistochemical staining using Leica Autostainer BONDMAX:<br/>HSA/JP/AP/HISTO/TPM-031</p> <p>Immunohistochemical staining using Dako Omnis:<br/>HSA/JP/AP/HISTO/TPM-032</p> |
| Tissue Fixed In 10% Neutral Buffered Formalin/fresh Tissue | Histochemistry                                 | Work instruction on histochemical stain as documented in:<br>HSA/JP/AP/HISTO/WI-008  |
| Fresh Tissue   | Frozen Sections                                | <p>Quality procedure of handling of frozen section as documented in:<br/>HSA/JP/AP/HISTO/QP-002</p> <p>Leica CM1950 Cryostat :<br/>HSA/JP/AP/HISTO/TPM-029</p>   |
|  | Immunofluorescence Examination                 | Work instruction of immunofluorescence stain as documented in:<br>HSA/JP/AP/HISTO/WI-010   |

**SCOPE OF MEDICAL TESTING : CYTOPATHOLOGY**

| Specimen Tested | Type of Test/<br>Properties Measured/ | Test Methods, Specifications/<br>Equipment/Techniques Used |
|-----------------|---------------------------------------|--|
|                 |                                       |  |

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| Non-gynaecological Specimens | Non-Gynaecological Cytology Examination | <p>Specimen preparation:<br/>Handling And Processing Of Specimens In The Cytology Laboratory as documented in HSA/JP/AP/CYTO/QP-001</p> <p>Preparation Of Smears For Non-Gynae Specimen<br/>HSA/JP/AP/CYTO/WI-001<br/>Cell Block as documented in HSA/JP/AP/CYTO/WI-003</p> <p>Staining:<br/>Procedure Papanicolaou Staining as documented in HSA/JP/AP/CYTO/TPM-001<br/>Procedure May Grunwald Giemsa Staining as documented in HSA/JP/AP/CYTO/TPM-002<br/>Automated autostainer :<br/>Procedure Operating Autostainer Sakura Tissue-Tek Prisma Plus HSA/JP/AP/CYTO/TPM-007</p> <p>Procedure Operating Autostainer Gemini AS<br/>HSA/JP/AP/CYTO/TPM-008</p> |
| Fine Needle Aspirates (fna)  | FNA Cytology Examination                | <p>Specimen preparation (routine sample): Handling And Processing Of Specimens In The Cytology Laboratory as documented in HSA/JP/AP/CYTO/QP-001</p> <p>Process Of Aspiration Material From FNAC As Documented in HSA/JP/AP/CYTO/WI- 002<br/>Cell Block as documented in HSA/JP/AP/CYTO/WI-003</p>   |

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|  | FNA Cytology Examination | <p>Specimen preparation (FNAC clinic sample):<br/>Handling of FNAC From The Patient To Cytology Laboratory as documented in<br/>HSA/JP/AP/CYTO/QP-003</p> <p>Staining:<br/>Procedure Papanicolaou Staining as documented in<br/>HSA/JP/AP/CYTO/TPM-001<br/>Procedure May Grunwald Giemsa Staining as documented in<br/>HSA/JP/AP/CYTO/TPM-002</p> <p>Procedure Diff Quick Staining as documented in<br/>HSA/JP/AP/CYTO/TPM-003<br/>Automated Autostainer:<br/>Automated autostainer :<br/>Procedure Operating Autostainer Tissue-Tek Prisma Plus<br/>HAS/JP/AP/CYTO/TPM-007<br/>Procedure Operating Autostainer Gemini AS<br/>HAS/JP/AP/CYTO/TPM-008</p> |
|--|--------------------------|--|

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY**

| Specimen Tested                      | Type of Test/<br>Properties Measured/ | Test Methods, Specifications/<br>Equipment/Techniques Used           |
|--------------------------------------|---------------------------------------|--|
| Blood                                | Culture & Sensitivity                 | Bactec Fluorescent technology as documented in HSA/JP/MIC/BAK/WI-001 |
| Sterile Body Fluid/ Capd/ Peritoneal | Culture & Sensitivity                 | Manual method as documented in HSA/JP/MIC/BAK/WI-002                 |
| Ear                                  | Culture & Sensitivity                 | Manual method as documented in HSA/JP/MIC/BAK/WI-014                 |
| Specimen                             | Culture & Sensitivity                 | Manual method as documented in HSA/JP/MIC/BAK/WI-013                 |

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| <b>Eye Swab</b><br>Throat Swab Sputum/ Bba / Bal   | Culture & Sensitivity                      | Manual method as documented<br>in HSA/JP/MIC/BAK/WI-019  |
|  | Culture & Sensitivity                      | Manual method as documented<br>in HSA/JP/MIC/BAK/WI-010  |
| Csf  | Culture & Sensitivity                      | Manual method as documented<br>in HSA/JP/MIC/BAK/WI-008  |
| Urine  | Culture & Sensitivity                      | Manual method as documented<br>in HSA/JP/MIC/BAK/WI-007  |
|  | Legionella Urinary Antigen Test            | Immunochromatographic assay<br>as documented<br>in HSA/JP/MIC/SERO/WI-010                                      |
| Nasal  | Culture & Sensitivity                      | Manual method as documented<br>in HSA/JP/MIC/BAK/WI-016  |
| Swab   | Culture & Sensitivity                      | Manual method as documented<br>in HSA/JP/MIC/BAK/WI-015  |
|  | Culture for MRSA screening                 | Manual method as documented<br>in HSA/JP/MIC/BAK/WI-026  |
| Csf/serum  | Cryptococcus antigen test                  | New method: Lateral flow method<br>HSA/JP/MIC/BAK/WI-008   |
| Culture  | Antibiotic susceptibility testing<br>(AST) | Manual method as documented<br>in<br>Semi- automated (New :<br>HSA_JP_MIC_BAK_TPM005)<br>HSA/JP/MIC/BAK/WI-021 |
| Respiratory Specimen, Urine, Pus,<br>Gastric Aspirate/lavage, Tissue,<br>Csf, Other Body Fluids  | AFB Direct Smear                           | Auramine staining method as<br>documented in<br>HSA/JP/MIC/TIBI/WI-001   |
| Sputum, Bronchiol Washing, Blind<br>Bronchiol Aspirate,<br>Bronchoalveolar Lavage, Tracheal<br>Aspirate, Urine, Pus, Body Fluids,<br>Tissue, Csf, Blood, Laryngeal<br>Swab | TB Culture                                 | BD MGIT Fluorescent technology<br>and manual<br>method as documented in<br>HSA/JP/MIC/TIBI/WI- 002             |

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| Cytomegalovirus IgG  | Architect CMIA technology as documented in HSA/JP/MIC/SERO/WI-005     |
| Epstein Barr Virus IgM   | Architect CMIA technology as documented in HSA/JP/MIC/SERO/WI-005     |
| Epstein Barr Virus IgG   | Architect CMIA technology as documented in HSA/JP/MIC/SERO/WI-005     |
| Herpes Simplex Virus IgM                                       | Architect CMIA technology as documented in HSA/JP/MIC/SERO/WI-005     |
| Herpes Simplex Virus IgG                                       | Architect CMIA technology as documented in HSA/JP/MIC/SERO/WI-005     |
| Dengue IgM   | Architect CMIA technology as documented in HSA/JP/MIC/SERO/WI-005     |
| Dengue IgG   | Architect CMIA technology as documented in HSA/JP/MIC/SERO/WI-005     |
| Dengue Rapid Test (Dengue NS1 Protein, Dengue IgM, Dengue IgG) | ELISA technology as documented in HSA/JP/MIC/SERO/WI-007              |
| Anti-Streptolysin –O Titre (ASOT)                              | ELISA technology as documented in HSA/JP/MIC/SERO/WI-007              |
| Rapid Plasma Reagin (RPR)                                      | ELISA technology as documented in HSA/JP/MIC/SERO/WI-007              |
| Treponema Pallidum Particle Agglutination Test (TPPA)          | ELISA technology as documented in HSA/JP/MIC/SERO/WI-008              |
| Leptospira IgM   | ELISA technology as documented in HSA/JP/MIC/SERO/WI-008              |
|  | Immunochromatographic assay as documented in HSA/JP/MIC/SERO/WI-020   |
|  | Latex Agglutination assay as documentation in HSA/JP/MIC/SERO/TPM-001 |
|  | Latex Agglutination assay as documentation in HSA/JP/MIC/SERO/TPM-001 |
|  | Particle Agglutination method as documented in HSA/JP/MIC/SERO/WI-011 |
|  | Latex Agglutination assay as documentation in HSA/JP/MIC/SERO/WI-009  |

## SCOPE OF MEDICAL TESTING : HAEMATOLOGY

| Specimen Tested | Type of Test/<br>Properties Measured/ | Test Methods, Specifications/<br>Equipment/Techniques Used |
|-----------------|---------------------------------------|--|
|                 |                                       |  |

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| Whole Blood | Full Blood Count (FBC)  | Automation method based on flowcytometry / Sysmex XN Series as documented in Full Blood Count Using Sysmex XN Analyser: HSA/JP/HM/TPM-001   |
|             | ESR   | Automation method based on photometry method / Alifax ESR analyzer as documented in ESR: HSA/JP/HM/TPM-026  |
|             | Full Blood Picture (FBP)  | Slide preparation: Automation method based on smear slide and Leishman staining on peripheral Blood Film / Sysmex SP 10 as documented in Handling of Automated Haematology Slide Preparation SP-10: HSA/JP/HM/WI-015. |
|             | Excluded from the recent scope because receive new analyzer replacement |   |
|             | CD4/CD8   | Automation method based on AQUIOS CL Flow Cytometer as documented in CD4 & CD8 Enumeration: HSA/JP/HM/TPM-038   |
|             | Full Blood Count  | Automation Method based on Flow Cytometry method, Hydro Dynamic Focusing, SLS hemoglobin detection/ Sysmex XN1000 as documented HSA/JP/LABK/TPM-002   |
|             | ESR   | Automation method based on photometry method / Alifax ESR analyzer as documented HSA/JP/LABK/TPM-006  |
|             | PT/INR APTT   | Automation method: Mechanical viscosity-based detection system/ STAGO Analyser as documented in PROTHROMBIN TIME (PT) AND ACTIVATED PARTIAL THROMBOPLASTIN TIME (APTT) USING STAGO ANALYSER : HSA/JP/HM/TPM-005       |

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| Blood Plasma               | Routine Coagulation PT/INR<br>APTT<br>Fibrinogen D-Dimer<br>Thrombin Time DIVC   | Automation method based on<br>Clotting Method & Immunologic<br>Assay as documented in<br>PT & APTT Using Stago Analyser<br>: HSAJP/HM/TPM-031<br>Fibrinogen :<br>HSAJP/HM/TPM-032 Thrombin<br>Time : HSAJP/HM/TPM-033<br>DIVC Screening :<br>HSA/JP/HM/WI-006                                  |
|                            | Special Coagulation: Factor<br>Assays (Factor VIII) Factor<br>Assays (Factor IX) Factor Inhibitor<br>(Factor VII) VIII<br>Factor Inhibitor (Factor IX) Lupus<br>Anticoagulant (LA) Mixing Test | Automation method based on<br>Clotting Method/ Stago Analyser<br>as documented in Factor Assays:<br>HSA/JP/HM/TPM-035<br>Factor Inhibitor:<br>HSA/JP/HM/TPM-036<br>Lupus Anticoagulant :<br>HSA/JP/HM/TPM-037<br>Mixing test :<br>HSA/JP/HM/TPM-008  |
| Blood Spot On Filter Paper | G6PD Screening   | Qualitative method based on<br>interpretation in the presence of<br>fluorescence blood spot / UV<br>Light Box as in documented in<br>HSA/JP/HM/TPM-012   |
| Whole                      | Immunophenotyping (IPT)  | Automation method based on<br>flowcytometry / Facs Canto as<br>documented in<br>IPT Using facs Canto Analyser:<br>HSA/JP/HM/WI-013   |
| Bone Marrow                | Bone Marrow Aspirate (BMA)<br>Trepine Roll/Imprint   | Specimen preparation :<br>Smear manual method as<br>documented in Preparation of<br>Thin Blood Smear, Bone Marrow<br>Smear and Trepine Roll<br>HSA/JP/HM/TPM-004<br>Routine Staining as documented<br>in Perl's staining :<br>HSA/JP/HM/TPM-013<br>May Grunwald Giemsa :<br>HSA/JP/HM/TPM- 017 |

**SCOPE OF MEDICAL TESTING : CHEMICAL PATHOLOGY**

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| Specimen Tested | Type of Test/<br>Properties Measured/                             | Test Methods, Specifications/<br>Equipment/Techniques Used                                 |
|-----------------|---|--|
| Serum, Plasma   | Albumin   | Bromocresol Purple Alinity-C as documented in HSA/JP/LABK/TPM-001                          |
|                 | Bromocresol Purple Alinity-C as documented in HSA/JP/LABK/TPM-001 | Para-nitrophenyl Phosphate/Alinity-C as documented in HSA/JP/LABK/TPM-001                  |
|                 | Alanine Amino Transferase (ALT)                                   | NADH (without P-5'-P)/Alinity-C as documented in HSA/JP/LABK/TPM-001                       |
|                 | Aspartate Transaminase (AST)                                      | NADH (without P-5'-P)/Alinity-C as documented in HSA/JP/LABK/TPM-001                       |
|                 | Calcium   | Arsenazo III Alinity-C as documented in HSA/JP/LABK/TPM-001                                |
|                 | Cholesterol   | Enzymatic / Alinity-C as documented in HSA/JP/LABK/TPM-001                                 |
|                 | Creatine Kinase, CK   | NAC (N-acetyl-L-cysteine) / Alinity-C as documented in HSA/JP/LABK/TPM-001                 |
|                 | Creatinine  | Enzymatic / Alinity-C as documented in HSA/JP/LABK/TPM-001                                 |
|                 | Bilirubin, Total  | Diazonium Salt/ Alinity C as documented in HSA/JP/LABK/TPM-001                             |
|                 | Bilirubin, Direct   | Diazo reaction/ AlinityC as documented in HSA/JP/LABK/TPM-001                              |
|                 | High Density Lipoprotein (HDL)                                    | Accelerator Selective Detergent /Alinity-C as documented in HSA/JP/LABK/TPM-001            |
|                 | Chloride, Cl Potassium, K Sodium, Na                              | Ion Selective Electrode diluted (Indirect)/ Alinity-C as documented in HSA/JP/LABK/TPM-001 |

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|        | Lactate Dehydrogenase, LDH | Lactate to Pyruvate/Alinity-C as documented in HSA/JP/LABK/TPM-001  |
|        | Magnesium                  | Enzymatic/Alinity-C as documented in HSA/JP/LABK/TPM-001  |
|        | Phosphate                  | Phosphomolybdate/Alinity-C as documented in HSA/JP/LABK/TPM-001   |
|        | Protein                    | Biuret/Alinity-C System as documented in HSA/JP/LABK/TPM-001  |
|        | Urea                       | Urease/Alinity-C System as documented in HSA/JP/LABK/TPM-001  |
|        | Uric Acid                  | Uricase/Alinity-C as documented in HSA/JP/LABK/TPM-001  |
| Plasma | Glucose                    | Hexokinase/ Alinity-C as documented in HSA/JP/LABK/TPM-001  |
| Urine  | Urinalysis                 | Automated method/ disptick base onwavelenght reflectance, SG base on reflective index, clarity based on light scattering and microscopy based on flow digital imaging/ Beckman Coulter IRIS iRICELL 3000 as Documented in HSA/JP/LABK/TPM-004 |

**NOTE :**