**Issue date: 21 April 2025**
**Valid Until: -**

**NO: SAMM 880**



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| **LABORATORY LOCATION:**<br>(PERMANENT LABORATORY) | Lablink (M) Sdn. Bhd.<br>14(129) Jalan Pahang Barat, Off Jalan Pahang, 53000 WP Kuala Lumpur. , 53000,<br>WILAYAH PERSEKUTUAN KUALA LUMPUR<br>MALAYSIA |
| **ACCREDITED SINCE :** | 21 APRIL 2025 |
| **FIELD(S) OF MEDICAL TESTING :** | CYTOPATHOLOGY<br>HISTOPATHOLOGY<br>MEDICAL MICROBIOLOGY (BACTERIOLOGY)<br>MEDICAL MICROBIOLOGY (MYCOBACTERIOLOGY)<br>MEDICAL MICROBIOLOGY (BACTERIOLOGY - SEROLOGY)<br>MEDICAL MICROBIOLOGY (VIROLOGY)<br>MEDICAL MICROBIOLOGY (VIROLOGY - SEROLOGY)<br>MEDICAL MICROBIOLOGY (IMMUNOLOGY)<br>MEDICAL MICROBIOLOGY (PARASITOLOGY)<br>CHEMICAL PATHOLOGY<br>HAEMATOLOGY |

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 Communiquè, November 2021)

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| **CENTRAL LOCATION** | Lablink (M) Sdn. Bhd.<br>14(129) Jalan Pahang Barat, Off Jalan Pahang, 53000 WP Kuala Lumpur. , 53000,<br>Wilayah Persekutuan Kuala Lumpur |
| **FIELD(S) OF MEDICAL TESTING :** | CYTOPATHOLOGY, HISTOPATHOLOGYMEDICAL MICROBIOLOGY (BACTERIOLOGY)MEDICAL MICROBIOLOGY (MYCOBACTERIOLOGY)MEDICAL MICROBIOLOGY (BACTERIOLOGY - SEROLOGY)MEDICAL MICROBIOLOGY (VIROLOGY)MEDICAL MICROBIOLOGY (VIROLOGY - SEROLOGY)MEDICAL MICROBIOLOGY (IMMUNOLOGY)MEDICAL MICROBIOLOGY (PARASITOLOGY)CHEMICAL PATHOLOGYHAEMATOLOGY |

**SCOPE OF MEDICAL TESTING : CYTOPATHOLOGY**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| Gynaecological Specimens | Specimen preparation, staining and reporting:<br>1. Conventional Pap Smear | Manual slide preparation as documented in A13QD001 - Processing of Conventional Pap Smear |
| | Specimen preparation, staining and reporting:<br>1. Conventional Pap Smear | Papstain Automated Staining Method by using Thermo Scientific Gemini AS as documented A13QT001 |
| | 2. Liquid-Base Cytology (LBC) | Semi-automated technique of SurePath density gradient-based cell enrichment method by using BD Prepmate for specimen preparation and automated technique of SurePath by using BD Prepstain processor as documented in A13QD002 - Processing of LBC Sample |

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| Non-gynaecological Specimens | Specimen Preparation, Staining and Reporting | Manual specimen preparation as documented in:<br>i) A13QD003 - Processing of body fluids<br>ii) A13QD004 - Processing of respiratory sample<br>iii) A13QD005 - Processing of other body fluids (Urine, CSF, Synovial fluids and others)<br>iv) A13QD006 - Processing of Cerebrospinal Fluids<br>v) A13QT001 - Papanicolaou Staining<br>Staining: Papstain Automated Staining method by using Thermo Scientific Gemini AS as documented A13QT001<br>Other processes as documented in the listed documents:<br>A13QD007, A13QD009, A13QD010, A13QD011, A13QD012, A13QD013 and AXQP001 (Appendix 3) |
| Fine Needle Aspiration Specimens | Specimen Preparation, Staining and Reporting | Manual specimen preparation method as documented in A13QD008<br>Staining: Papstain Automated Staining method by using Thermo Scientific Gemini AS as documented A13QT001.<br>Other process as documented in the listed documents:<br>i) A13QT002 - Diff Quick Staining (Manual Method)<br>ii) AXQP001 – Test Request Management (Appendix 3) |

**SCOPE OF MEDICAL TESTING : HISTOPATHOLOGY**

| **Specimen Tested** | **Type of Test/** | **Test Methods,Specifications/** |
|---|---|---|

| | **Properties Measured/** | **Equipment/Techniques Used** |
|---|---|---|
| Surgical Specimens | Diagnostic Histopathology:<br>1. Grossing | Manual method as documented in A9QD002 - Grossing Specimen Handling |
| | 2. Tissue Processing | Automated system by using:<br>i) Tissue Processor Milestone Pathos Delta Tissue Processor as documented in A9QD025<br>ii) Tissue Processor Sakura VIP6 as documented in A9QD030<br>iii) Tissue Processor Sakura VIP 6AI as documented in A9QD031 |
| | 3. Embedding | Semi - automated system by using Embedding Station: Sakura Tissue-Tek Tec 5 Console system equipment as documented in A9QD003. |
| | 4. Sectioning | Manual method by using:<br>i) Tissue sectioning Leica RM2235 microtome as documented in A9QD020<br>ii) Tissue sectioning Sakura Accu-Cut SRM200 microtome as documented in A9QD020 |
| | 5. Staining (H&E) | Automation H&E staining by using method as documented in:<br>i) DRS 2000 Autostainer as documented in A9QD016<br>ii) Sakura Tissue-Tek Prisma Plus Autostainer as documented in A9QD032 |

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| | 6. Mounting of slides | Mounting and cover slipping by using:<br>i) Manual method by using Merck Milipore<br>Entellan media as documented in A9QD022<br>ii) Automation by using Sakura Tissue-Tek<br>Prisma Plus Autostainer as documented in<br>A9QD032<br>Other processes as documented in the listed<br>documents:<br>A9QD002, A9QD006, A9QD007, A9QD009,<br>A9QD010, A9QD013, A9QD014, A9QD017,<br>A9QD021, A9QD022, A9QD023, A9QD026,<br>A9QD029 |
| | 7. Immunohistochemistry Testing (IHC) | Automated IHC staining procedure by using:<br>i) Roche Ventana Benchmark Ultra as<br>documented in A9QD027<br>ii) Roche Ventana Benchmark GX as<br>documented in A9QD019 |
| Fresh Tissue (unfixed Tissue) | Cryostat Sectioning | Manual procedure by using Leica CM1850 UV Cryostat as documented in A9QD015 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Bacteriology**<br>Gram Stain Smear | Microscopic examination:<br>1. Gram Stain | Microscopy by using gram stain method as documented in A4QT001 |
| **Bacteriology**<br>Primary Specimen: Urine | Culture | Processing of urine specimen on culture media as documented in A4QD001 |
| **Bacteriology**<br>Primary Specimen: Eye And Ear Swab | Culture | Processing of Eye and Ear Swab specimen on culture media as documented in A4QD010 |

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| **Bacteriology**<br>Bacteria Isolates | Bacteria Identification | Protein Identification (Proteomic) based on (Matrix Assisted Laser Desorption / Ionization Time of Flight Mass Spectrometry (MALDI-TOF MS) Technology by using Bruker MALDI Biotyper System as documented in A4QT039 Phenotypic Identification based on Advance Colorimetric Technology by using Vitek 2 Biomerieux as documented in A4QT004 |
| | Antimicrobial Sensitivity Test (AST) | Phenotypic reaction with continue growth monitoring and utilizes an optimized colorimetric redox indicator based on Minimum Inhibitory Concentration (MIC) Method by using BD Phoenix M50 as documented in A4QT041. |
| | Antimicrobial Sensitivity Test (AST) | Automated sample preparation for AST testing by using BD Phoenix AP as documented in A4QT042 |
| | Antimicrobial Sensitivity Test (AST) | Phenotypic reaction with continue growth monitoring based on Minimum Inhibitory Concentration (MIC) Method by using VITEK 2 as documented in A4QT004. |
| | Antimicrobial Sensitivity Test (AST) | Disk diffusion antibiotic sensitivity testing by using Kirby Bauer Method as documented in A4QT007 |
| | Antimicrobial Sensitivity Test (AST) | Antimicrobial Sensitivity Testing (AST) by using E-test as documented in A4QT008 |
| Wet Mount Smear | 2. Wet Preparation | Microscopy by using wet preparation method as documented in A4QT027 |
| Urine | 3. Urine Microscopic Examination | Phase contrast examination of un-centrifuged urine by using urine counting chamber as documented in A4QT028 – Urine counting chamber (for urine specimen) |

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| Blood | Culture | Processing of blood specimen on culture media<br>as documented in A4QD002 Blood Culture System as documented in:<br>i) A4QT011 BACTEC Blood Culture System<br>ii) A4QT043 BACTEC FX40 Blood Culture<br>System |
| Sputum | Culture | Processing of sputum specimen on culture media as documented in A4QD003 |
| Throat Swab | Culture | Processing of throat swab specimen on culture media as documented in A4QD004 |
| Tracheal Aspirate/ Broncho Alveolar Lavage And Bronchial Washing | Culture | Processing of Tracheal Aspirate / Broncho Alveolar Lavage and Bronchial Washing Specimen on culture media as documented in A4QD005 |
| Nasopharyngeal Swab | Culture | Processing of Nasopharyngeal swab specimen on culture media as documented in A4QD006 |
| Genital Tract | Culture | Processing of genital tract specimen on culture media as documented in A4QD007 |
| Fecal | Culture | Processing of fecal specimen on culture media as documented in A4QD008 |
| Csf | Culture | Processing of CSF specimen on culture media as documented in A4QD009 |
| Pus Aspirate And Pus Abscess From Deep Seated Wound | Culture | Processing of Pus Aspirate and Pus Abscess from Deep Seated Wound specimen on culture media as documented in A4QD011 |
| Superficial Pus Swab And Skin Swab | Culture | Processing of Superficial Pus Swab and Skin Swab specimen on culture media as documented in A4QD012 |
| Bone | Culture | Processing of Bone specimen on culture media as documented in A4QD013 |
| Tissue | Culture | Processing of Tissue specimen on culture media as documented in A4QD014 |

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| Sterile Body Fluid In Blood Culture Bottle | Culture | Processing of Sterile Body Fluid in Blood Culture Bottle by using Bactec 9120 as documented in A4QD015 |
| Sterile Body Fluid | Culture | Processing of Sterile Body Fluid specimen on culture media as documented in A4QD016 |
| Catheter Tip/urinary Catheter Tip | Culture | Processing of Catheter Tip specimen on culture media as documented in A4QD017 |
| | Culture | Processing of Urinary Catheter Tip specimen on culture media as documented in A4QD022 |
| Iucd | Culture | Processing of IUCD specimen on culture media as documented in A4QD018 |
| Antral Biopsy | Culture | Processing of Antral Biopsy specimen on culture media as documented in A4QD019 |
| Nasal Swab | Culture | Processing of Nasal Swab specimen on culture media as documented in A4QD021 |
| Groin Swab, Axilla Swab, Rectal Swab | Culture | Processing of Alert Organism Screening sample on culture media as documented in A4QD020 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (MYCOBACTERIOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Bacteriology**<br>Gram Stain Smear | Microscopic examination:<br>1. Gram Stain | Microscopy by using gram stain method as documented in A4QT001 |
| **Bacteriology**<br>Primary Specimen: Urine | Culture | Processing of urine specimen on culture media as documented in A4QD001 |
| **Bacteriology**<br>Primary Specimen: Eye And Ear Swab | Culture | Processing of Eye and Ear Swab specimen on culture media as documented in A4QD010 |

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| **Bacteriology**<br>Bacteria Isolates | Bacteria Identification | Protein Identification (Proteomic) based on (Matrix Assisted Laser Desorption / Ionization Time of Flight Mass Spectrometry (MALDI-TOF MS) Technology by using Bruker MALDI Biotyper System as documented in A4QT039 Phenotypic Identification based on Advance Colorimetric Technology by using Vitek 2 Biomerieux as documented in A4QT004 |
| | Antimicrobial Sensitivity Test (AST) | Phenotypic reaction with continue growth monitoring and utilizes an optimized colorimetric redox indicator based on Minimum Inhibitory Concentration (MIC) Method by using BD Phoenix M50 as documented in A4QT041. |
| | Antimicrobial Sensitivity Test (AST) | Automated sample preparation for AST testing by using BD Phoenix AP as documented in A4QT042 |
| | Antimicrobial Sensitivity Test (AST) | Phenotypic reaction with continue growth monitoring based on Minimum Inhibitory Concentration (MIC) Method by using VITEK 2 as documented in A4QT004. |
| | Antimicrobial Sensitivity Test (AST) | Disk diffusion antibiotic sensitivity testing by using Kirby Bauer Method as documented in A4QT007 |
| | Antimicrobial Sensitivity Test (AST) | Antimicrobial Sensitivity Testing (AST) by using E-test as documented in A4QT008 |
| Wet Mount Smear | 2. Wet Preparation | Microscopy by using wet preparation method as documented in A4QT027 |
| Urine | 3. Urine Microscopic Examination | Phase contrast examination of un-centrifuged urine by using urine counting chamber as documented in A4QT028 – Urine counting chamber (for urine specimen) |

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|---|---|---|
| Blood | Culture | Processing of blood specimen on culture media<br>as documented in A4QD002 Blood Culture System as documented in:<br>i) A4QT011 BACTEC Blood Culture System<br>ii) A4QT043 BACTEC FX40 Blood Culture<br>System |
| Sputum | Culture | Processing of sputum specimen on culture media as documented in A4QD003 |
| Throat Swab | Culture | Processing of throat swab specimen on culture media as documented in A4QD004 |
| Tracheal Aspirate/ Broncho Alveolar Lavage And Bronchial Washing | Culture | Processing of Tracheal Aspirate / Broncho Alveolar Lavage and Bronchial Washing Specimen on culture media as documented in A4QD005 |
| Nasopharyngeal Swab | Culture | Processing of Nasopharyngeal swab specimen on culture media as documented in A4QD006 |
| Genital Tract | Culture | Processing of genital tract specimen on culture media as documented in A4QD007 |
| Fecal | Culture | Processing of fecal specimen on culture media as documented in A4QD008 |
| Csf | Culture | Processing of CSF specimen on culture media as documented in A4QD009 |
| Pus Aspirate And Pus Abscess From Deep Seated Wound | Culture | Processing of Pus Aspirate and Pus Abscess from Deep Seated Wound specimen on culture media as documented in A4QD011 |
| Superficial Pus Swab And Skin Swab | Culture | Processing of Superficial Pus Swab and Skin Swab specimen on culture media as documented in A4QD012 |
| Bone | Culture | Processing of Bone specimen on culture media as documented in A4QD013 |
| Tissue | Culture | Processing of Tissue specimen on culture media as documented in A4QD014 |

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| Sterile Body Fluid In Blood Culture Bottle | Culture | Processing of Sterile Body Fluid in Blood Culture Bottle by using Bactec 9120 as documented in A4QD015 |
| Sterile Body Fluid | Culture | Processing of Sterile Body Fluid specimen on culture media as documented in A4QD016 |
| Catheter Tip/urinary Catheter Tip | Culture | Processing of Catheter Tip specimen on culture media as documented in A4QD017 |
| | Culture | Processing of Urinary Catheter Tip specimen on culture media as documented in A4QD022 |
| Iucd | Culture | Processing of IUCD specimen on culture media as documented in A4QD018 |
| Antral Biopsy | Culture | Processing of Antral Biopsy specimen on culture media as documented in A4QD019 |
| Nasal Swab | Culture | Processing of Nasal Swab specimen on culture media as documented in A4QD021 |
| Groin Swab, Axilla Swab, Rectal Swab | Culture | Processing of Alert Organism Screening sample on culture media as documented in A4QD020 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY - SEROLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Bacteriology**<br>Gram Stain Smear | Microscopic examination:<br>1. Gram Stain | Microscopy by using gram stain method as documented in A4QT001 |
| **Bacteriology**<br>Primary Specimen: Urine | Culture | Processing of urine specimen on culture media as documented in A4QD001 |
| **Bacteriology**<br>Primary Specimen: Eye And Ear Swab | Culture | Processing of Eye and Ear Swab specimen on culture media as documented in A4QD010 |

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| **Bacteriology**<br>Bacteria Isolates | Bacteria Identification | Protein Identification (Proteomic) based on (Matrix Assisted Laser Desorption / Ionization Time of Flight Mass Spectrometry (MALDI-TOF MS) Technology by using Bruker MALDI Biotyper System as documented in A4QT039 Phenotypic Identification based on Advance Colorimetric Technology by using Vitek 2 Biomerieux as documented in A4QT004 |
| | Antimicrobial Sensitivity Test (AST) | Phenotypic reaction with continue growth monitoring and utilizes an optimized colorimetric redox indicator based on Minimum Inhibitory Concentration (MIC) Method by using BD Phoenix M50 as documented in A4QT041. |
| | Antimicrobial Sensitivity Test (AST) | Automated sample preparation for AST testing by using BD Phoenix AP as documented in A4QT042 |
| | Antimicrobial Sensitivity Test (AST) | Phenotypic reaction with continue growth monitoring based on Minimum Inhibitory Concentration (MIC) Method by using VITEK 2 as documented in A4QT004. |
| | Antimicrobial Sensitivity Test (AST) | Disk diffusion antibiotic sensitivity testing by using Kirby Bauer Method as documented in A4QT007 |
| | Antimicrobial Sensitivity Test (AST) | Antimicrobial Sensitivity Testing (AST) by using E-test as documented in A4QT008 |
| Wet Mount Smear | 2. Wet Preparation | Microscopy by using wet preparation method as documented in A4QT027 |
| Urine | 3. Urine Microscopic Examination | Phase contrast examination of un-centrifuged urine by using urine counting chamber as documented in A4QT028 – Urine counting chamber (for urine specimen) |

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|---|---|---|
| Blood | Culture | Processing of blood specimen on culture media<br>as documented in A4QD002 Blood Culture System as documented in:<br>i) A4QT011 BACTEC Blood Culture System<br>ii) A4QT043 BACTEC FX40 Blood Culture<br>System |
| Sputum | Culture | Processing of sputum specimen on culture media as documented in A4QD003 |
| Throat Swab | Culture | Processing of throat swab specimen on culture media as documented in A4QD004 |
| Tracheal Aspirate/ Broncho Alveolar Lavage And Bronchial Washing | Culture | Processing of Tracheal Aspirate / Broncho Alveolar Lavage and Bronchial Washing Specimen on culture media as documented in A4QD005 |
| Nasopharyngeal Swab | Culture | Processing of Nasopharyngeal swab specimen on culture media as documented in A4QD006 |
| Genital Tract | Culture | Processing of genital tract specimen on culture media as documented in A4QD007 |
| Fecal | Culture | Processing of fecal specimen on culture media as documented in A4QD008 |
| Csf | Culture | Processing of CSF specimen on culture media as documented in A4QD009 |
| Pus Aspirate And Pus Abscess From Deep Seated Wound | Culture | Processing of Pus Aspirate and Pus Abscess from Deep Seated Wound specimen on culture media as documented in A4QD011 |
| Superficial Pus Swab And Skin Swab | Culture | Processing of Superficial Pus Swab and Skin Swab specimen on culture media as documented in A4QD012 |
| Bone | Culture | Processing of Bone specimen on culture media as documented in A4QD013 |
| Tissue | Culture | Processing of Tissue specimen on culture media as documented in A4QD014 |

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| Sterile Body Fluid In Blood Culture Bottle | Culture | Processing of Sterile Body Fluid in Blood Culture Bottle by using Bactec 9120 as documented in A4QD015 |
| Sterile Body Fluid | Culture | Processing of Sterile Body Fluid specimen on culture media as documented in A4QD016 |
| Catheter Tip/urinary Catheter Tip | Culture | Processing of Catheter Tip specimen on culture media as documented in A4QD017 |
| | Culture | Processing of Urinary Catheter Tip specimen on culture media as documented in A4QD022 |
| Iucd | Culture | Processing of IUCD specimen on culture media as documented in A4QD018 |
| Antral Biopsy | Culture | Processing of Antral Biopsy specimen on culture media as documented in A4QD019 |
| Nasal Swab | Culture | Processing of Nasal Swab specimen on culture media as documented in A4QD021 |
| Groin Swab, Axilla Swab, Rectal Swab | Culture | Processing of Alert Organism Screening sample on culture media as documented in A4QD020 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Bacteriology**<br>Gram Stain Smear | Microscopic examination:<br>1. Gram Stain | Microscopy by using gram stain method as documented in A4QT001 |
| **Bacteriology**<br>Primary Specimen: Urine | Culture | Processing of urine specimen on culture media as documented in A4QD001 |
| **Bacteriology**<br>Primary Specimen: Eye And Ear Swab | Culture | Processing of Eye and Ear Swab specimen on culture media as documented in A4QD010 |

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| **Bacteriology**<br>Bacteria Isolates | Bacteria Identification | Protein Identification (Proteomic) based on (Matrix Assisted Laser Desorption / Ionization Time of Flight Mass Spectrometry (MALDI-TOF MS) Technology by using Bruker MALDI Biotyper System as documented in A4QT039 Phenotypic Identification based on Advance Colorimetric Technology by using Vitek 2 Biomerieux as documented in A4QT004 |
| | Antimicrobial Sensitivity Test (AST) | Phenotypic reaction with continue growth monitoring and utilizes an optimized colorimetric redox indicator based on Minimum Inhibitory Concentration (MIC) Method by using BD Phoenix M50 as documented in A4QT041. |
| | Antimicrobial Sensitivity Test (AST) | Automated sample preparation for AST testing by using BD Phoenix AP as documented in A4QT042 |
| | Antimicrobial Sensitivity Test (AST) | Phenotypic reaction with continue growth monitoring based on Minimum Inhibitory Concentration (MIC) Method by using VITEK 2 as documented in A4QT004. |
| | Antimicrobial Sensitivity Test (AST) | Disk diffusion antibiotic sensitivity testing by using Kirby Bauer Method as documented in A4QT007 |
| | Antimicrobial Sensitivity Test (AST) | Antimicrobial Sensitivity Testing (AST) by using E-test as documented in A4QT008 |
| Wet Mount Smear | 2. Wet Preparation | Microscopy by using wet preparation method as documented in A4QT027 |
| Urine | 3. Urine Microscopic Examination | Phase contrast examination of un-centrifuged urine by using urine counting chamber as documented in A4QT028 – Urine counting chamber (for urine specimen) |

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|---|---|---|
| Blood | Culture | Processing of blood specimen on culture media<br>as documented in A4QD002 Blood Culture System as documented in:<br>i) A4QT011 BACTEC Blood Culture System<br>ii) A4QT043 BACTEC FX40 Blood Culture<br>System |
| Sputum | Culture | Processing of sputum specimen on culture media as documented in A4QD003 |
| Throat Swab | Culture | Processing of throat swab specimen on culture media as documented in A4QD004 |
| Tracheal Aspirate/ Broncho Alveolar Lavage And Bronchial Washing | Culture | Processing of Tracheal Aspirate / Broncho Alveolar Lavage and Bronchial Washing Specimen on culture media as documented in A4QD005 |
| Nasopharyngeal Swab | Culture | Processing of Nasopharyngeal swab specimen on culture media as documented in A4QD006 |
| Genital Tract | Culture | Processing of genital tract specimen on culture media as documented in A4QD007 |
| Fecal | Culture | Processing of fecal specimen on culture media as documented in A4QD008 |
| Csf | Culture | Processing of CSF specimen on culture media as documented in A4QD009 |
| Pus Aspirate And Pus Abscess From Deep Seated Wound | Culture | Processing of Pus Aspirate and Pus Abscess from Deep Seated Wound specimen on culture media as documented in A4QD011 |
| Superficial Pus Swab And Skin Swab | Culture | Processing of Superficial Pus Swab and Skin Swab specimen on culture media as documented in A4QD012 |
| Bone | Culture | Processing of Bone specimen on culture media as documented in A4QD013 |
| Tissue | Culture | Processing of Tissue specimen on culture media as documented in A4QD014 |

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|---|---|---|
| Sterile Body Fluid In Blood Culture Bottle | Culture | Processing of Sterile Body Fluid in Blood Culture Bottle by using Bactec 9120 as documented in A4QD015 |
| Sterile Body Fluid | Culture | Processing of Sterile Body Fluid specimen on culture media as documented in A4QD016 |
| Catheter Tip/urinary Catheter Tip | Culture | Processing of Catheter Tip specimen on culture media as documented in A4QD017 |
| | Culture | Processing of Urinary Catheter Tip specimen on culture media as documented in A4QD022 |
| Iucd | Culture | Processing of IUCD specimen on culture media as documented in A4QD018 |
| Antral Biopsy | Culture | Processing of Antral Biopsy specimen on culture media as documented in A4QD019 |
| Nasal Swab | Culture | Processing of Nasal Swab specimen on culture media as documented in A4QD021 |
| Groin Swab, Axilla Swab, Rectal Swab | Culture | Processing of Alert Organism Screening sample on culture media as documented in A4QD020 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY - SEROLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Bacteriology**<br>Gram Stain Smear | Microscopic examination:<br>1. Gram Stain | Microscopy by using gram stain method as documented in A4QT001 |
| **Bacteriology**<br>Primary Specimen: Urine | Culture | Processing of urine specimen on culture media as documented in A4QD001 |
| **Bacteriology**<br>Primary Specimen: Eye And Ear Swab | Culture | Processing of Eye and Ear Swab specimen on culture media as documented in A4QD010 |

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| **Bacteriology**<br>Bacteria Isolates | Bacteria Identification | Protein Identification (Proteomic) based on (Matrix Assisted Laser Desorption / Ionization Time of Flight Mass Spectrometry (MALDI-TOF MS) Technology by using Bruker MALDI Biotyper System as documented in A4QT039 Phenotypic Identification based on Advance Colorimetric Technology by using Vitek 2 Biomerieux as documented in A4QT004 |
| | Antimicrobial Sensitivity Test (AST) | Phenotypic reaction with continue growth monitoring and utilizes an optimized colorimetric redox indicator based on Minimum Inhibitory Concentration (MIC) Method by using BD Phoenix M50 as documented in A4QT041. |
| | Antimicrobial Sensitivity Test (AST) | Automated sample preparation for AST testing by using BD Phoenix AP as documented in A4QT042 |
| | Antimicrobial Sensitivity Test (AST) | Phenotypic reaction with continue growth monitoring based on Minimum Inhibitory Concentration (MIC) Method by using VITEK 2 as documented in A4QT004. |
| | Antimicrobial Sensitivity Test (AST) | Disk diffusion antibiotic sensitivity testing by using Kirby Bauer Method as documented in A4QT007 |
| | Antimicrobial Sensitivity Test (AST) | Antimicrobial Sensitivity Testing (AST) by using E-test as documented in A4QT008 |
| Wet Mount Smear | 2. Wet Preparation | Microscopy by using wet preparation method as documented in A4QT027 |
| Urine | 3. Urine Microscopic Examination | Phase contrast examination of un-centrifuged urine by using urine counting chamber as documented in A4QT028 – Urine counting chamber (for urine specimen) |

| | | |
|---|---|---|
| Blood | Culture | Processing of blood specimen on culture media<br>as documented in A4QD002 Blood Culture System as documented in:<br>i) A4QT011 BACTEC Blood Culture System<br>ii) A4QT043 BACTEC FX40 Blood Culture<br>System |
| Sputum | Culture | Processing of sputum specimen on culture media as documented in A4QD003 |
| Throat Swab | Culture | Processing of throat swab specimen on culture media as documented in A4QD004 |
| Tracheal Aspirate/ Broncho Alveolar Lavage And Bronchial Washing | Culture | Processing of Tracheal Aspirate / Broncho Alveolar Lavage and Bronchial Washing Specimen on culture media as documented in A4QD005 |
| Nasopharyngeal Swab | Culture | Processing of Nasopharyngeal swab specimen on culture media as documented in A4QD006 |
| Genital Tract | Culture | Processing of genital tract specimen on culture media as documented in A4QD007 |
| Fecal | Culture | Processing of fecal specimen on culture media as documented in A4QD008 |
| Csf | Culture | Processing of CSF specimen on culture media as documented in A4QD009 |
| Pus Aspirate And Pus Abscess From Deep Seated Wound | Culture | Processing of Pus Aspirate and Pus Abscess from Deep Seated Wound specimen on culture media as documented in A4QD011 |
| Superficial Pus Swab And Skin Swab | Culture | Processing of Superficial Pus Swab and Skin Swab specimen on culture media as documented in A4QD012 |
| Bone | Culture | Processing of Bone specimen on culture media as documented in A4QD013 |
| Tissue | Culture | Processing of Tissue specimen on culture media as documented in A4QD014 |

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| Sterile Body Fluid In Blood Culture Bottle | Culture | Processing of Sterile Body Fluid in Blood Culture Bottle by using Bactec 9120 as documented in A4QD015 |
| Sterile Body Fluid | Culture | Processing of Sterile Body Fluid specimen on culture media as documented in A4QD016 |
| Catheter Tip/urinary Catheter Tip | Culture | Processing of Catheter Tip specimen on culture media as documented in A4QD017 |
| | Culture | Processing of Urinary Catheter Tip specimen on culture media as documented in A4QD022 |
| Iucd | Culture | Processing of IUCD specimen on culture media as documented in A4QD018 |
| Antral Biopsy | Culture | Processing of Antral Biopsy specimen on culture media as documented in A4QD019 |
| Nasal Swab | Culture | Processing of Nasal Swab specimen on culture media as documented in A4QD021 |
| Groin Swab, Axilla Swab, Rectal Swab | Culture | Processing of Alert Organism Screening sample on culture media as documented in A4QD020 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (IMMUNOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Bacteriology**<br>Gram Stain Smear | Microscopic examination:<br>1. Gram Stain | Microscopy by using gram stain method as documented in A4QT001 |
| **Bacteriology**<br>Primary Specimen: Urine | Culture | Processing of urine specimen on culture media as documented in A4QD001 |
| **Bacteriology**<br>Primary Specimen: Eye And Ear Swab | Culture | Processing of Eye and Ear Swab specimen on culture media as documented in A4QD010 |

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| **Bacteriology**<br>Bacteria Isolates | Bacteria Identification | Protein Identification (Proteomic) based on (Matrix Assisted Laser Desorption / Ionization Time of Flight Mass Spectrometry (MALDI-TOF MS) Technology by using Bruker MALDI Biotyper System as documented in A4QT039 Phenotypic Identification based on Advance Colorimetric Technology by using Vitek 2 Biomerieux as documented in A4QT004 |
| | Antimicrobial Sensitivity Test (AST) | Phenotypic reaction with continue growth monitoring and utilizes an optimized colorimetric redox indicator based on Minimum Inhibitory Concentration (MIC) Method by using BD Phoenix M50 as documented in A4QT041. |
| | Antimicrobial Sensitivity Test (AST) | Automated sample preparation for AST testing by using BD Phoenix AP as documented in A4QT042 |
| | Antimicrobial Sensitivity Test (AST) | Phenotypic reaction with continue growth monitoring based on Minimum Inhibitory Concentration (MIC) Method by using VITEK 2 as documented in A4QT004. |
| | Antimicrobial Sensitivity Test (AST) | Disk diffusion antibiotic sensitivity testing by using Kirby Bauer Method as documented in A4QT007 |
| | Antimicrobial Sensitivity Test (AST) | Antimicrobial Sensitivity Testing (AST) by using E-test as documented in A4QT008 |
| Wet Mount Smear | 2. Wet Preparation | Microscopy by using wet preparation method as documented in A4QT027 |
| Urine | 3. Urine Microscopic Examination | Phase contrast examination of un-centrifuged urine by using urine counting chamber as documented in A4QT028 – Urine counting chamber (for urine specimen) |

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|---|---|---|
| Blood | Culture | Processing of blood specimen on culture media<br>as documented in A4QD002 Blood Culture System as documented in:<br>i) A4QT011 BACTEC Blood Culture System<br>ii) A4QT043 BACTEC FX40 Blood Culture<br>System |
| Sputum | Culture | Processing of sputum specimen on culture media as documented in A4QD003 |
| Throat Swab | Culture | Processing of throat swab specimen on culture media as documented in A4QD004 |
| Tracheal Aspirate/ Broncho Alveolar Lavage And Bronchial Washing | Culture | Processing of Tracheal Aspirate / Broncho Alveolar Lavage and Bronchial Washing Specimen on culture media as documented in A4QD005 |
| Nasopharyngeal Swab | Culture | Processing of Nasopharyngeal swab specimen on culture media as documented in A4QD006 |
| Genital Tract | Culture | Processing of genital tract specimen on culture media as documented in A4QD007 |
| Fecal | Culture | Processing of fecal specimen on culture media as documented in A4QD008 |
| Csf | Culture | Processing of CSF specimen on culture media as documented in A4QD009 |
| Pus Aspirate And Pus Abscess From Deep Seated Wound | Culture | Processing of Pus Aspirate and Pus Abscess from Deep Seated Wound specimen on culture media as documented in A4QD011 |
| Superficial Pus Swab And Skin Swab | Culture | Processing of Superficial Pus Swab and Skin Swab specimen on culture media as documented in A4QD012 |
| Bone | Culture | Processing of Bone specimen on culture media as documented in A4QD013 |
| Tissue | Culture | Processing of Tissue specimen on culture media as documented in A4QD014 |

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|---|---|---|
| Sterile Body Fluid In Blood Culture Bottle | Culture | Processing of Sterile Body Fluid in Blood Culture Bottle by using Bactec 9120 as documented in A4QD015 |
| Sterile Body Fluid | Culture | Processing of Sterile Body Fluid specimen on culture media as documented in A4QD016 |
| Catheter Tip/urinary Catheter Tip | Culture | Processing of Catheter Tip specimen on culture media as documented in A4QD017 |
| | Culture | Processing of Urinary Catheter Tip specimen on culture media as documented in A4QD022 |
| Iucd | Culture | Processing of IUCD specimen on culture media as documented in A4QD018 |
| Antral Biopsy | Culture | Processing of Antral Biopsy specimen on culture media as documented in A4QD019 |
| Nasal Swab | Culture | Processing of Nasal Swab specimen on culture media as documented in A4QD021 |
| Groin Swab, Axilla Swab, Rectal Swab | Culture | Processing of Alert Organism Screening sample on culture media as documented in A4QD020 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (PARASITOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Bacteriology**<br>Gram Stain Smear | Microscopic examination:<br>1. Gram Stain | Microscopy by using gram stain method as documented in A4QT001 |
| **Bacteriology**<br>Primary Specimen: Urine | Culture | Processing of urine specimen on culture media as documented in A4QD001 |
| **Bacteriology**<br>Primary Specimen: Eye And Ear Swab | Culture | Processing of Eye and Ear Swab specimen on culture media as documented in A4QD010 |

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|---|---|---|
| **Bacteriology**<br>Bacteria Isolates | Bacteria Identification | Protein Identification (Proteomic) based on (Matrix Assisted Laser Desorption / Ionization Time of Flight Mass Spectrometry (MALDI-TOF MS) Technology by using Bruker MALDI Biotyper System as documented in A4QT039 Phenotypic Identification based on Advance Colorimetric Technology by using Vitek 2 Biomerieux as documented in A4QT004 |
| | Antimicrobial Sensitivity Test (AST) | Phenotypic reaction with continue growth monitoring and utilizes an optimized colorimetric redox indicator based on Minimum Inhibitory Concentration (MIC) Method by using BD Phoenix M50 as documented in A4QT041. |
| | Antimicrobial Sensitivity Test (AST) | Automated sample preparation for AST testing by using BD Phoenix AP as documented in A4QT042 |
| | Antimicrobial Sensitivity Test (AST) | Phenotypic reaction with continue growth monitoring based on Minimum Inhibitory Concentration (MIC) Method by using VITEK 2 as documented in A4QT004. |
| | Antimicrobial Sensitivity Test (AST) | Disk diffusion antibiotic sensitivity testing by using Kirby Bauer Method as documented in A4QT007 |
| | Antimicrobial Sensitivity Test (AST) | Antimicrobial Sensitivity Testing (AST) by using E-test as documented in A4QT008 |
| Wet Mount Smear | 2. Wet Preparation | Microscopy by using wet preparation method as documented in A4QT027 |
| Urine | 3. Urine Microscopic Examination | Phase contrast examination of un-centrifuged urine by using urine counting chamber as documented in A4QT028 – Urine counting chamber (for urine specimen) |

| | | |
|---|---|---|
| Blood | Culture | Processing of blood specimen on culture media<br>as documented in A4QD002 Blood Culture System as documented in:<br>i) A4QT011 BACTEC Blood Culture System<br>ii) A4QT043 BACTEC FX40 Blood Culture<br>System |
| Sputum | Culture | Processing of sputum specimen on culture media as documented in A4QD003 |
| Throat Swab | Culture | Processing of throat swab specimen on culture media as documented in A4QD004 |
| Tracheal Aspirate/ Broncho Alveolar Lavage And Bronchial Washing | Culture | Processing of Tracheal Aspirate / Broncho Alveolar Lavage and Bronchial Washing Specimen on culture media as documented in A4QD005 |
| Nasopharyngeal Swab | Culture | Processing of Nasopharyngeal swab specimen on culture media as documented in A4QD006 |
| Genital Tract | Culture | Processing of genital tract specimen on culture media as documented in A4QD007 |
| Fecal | Culture | Processing of fecal specimen on culture media as documented in A4QD008 |
| Csf | Culture | Processing of CSF specimen on culture media as documented in A4QD009 |
| Pus Aspirate And Pus Abscess From Deep Seated Wound | Culture | Processing of Pus Aspirate and Pus Abscess from Deep Seated Wound specimen on culture media as documented in A4QD011 |
| Superficial Pus Swab And Skin Swab | Culture | Processing of Superficial Pus Swab and Skin Swab specimen on culture media as documented in A4QD012 |
| Bone | Culture | Processing of Bone specimen on culture media as documented in A4QD013 |
| Tissue | Culture | Processing of Tissue specimen on culture media as documented in A4QD014 |

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|---|---|---|
| Sterile Body Fluid In Blood Culture Bottle | Culture | Processing of Sterile Body Fluid in Blood Culture Bottle by using Bactec 9120 as documented in A4QD015 |
| Sterile Body Fluid | Culture | Processing of Sterile Body Fluid specimen on culture media as documented in A4QD016 |
| Catheter Tip/urinary Catheter Tip | Culture | Processing of Catheter Tip specimen on culture media as documented in A4QD017 |
| | Culture | Processing of Urinary Catheter Tip specimen on culture media as documented in A4QD022 |
| Iucd | Culture | Processing of IUCD specimen on culture media as documented in A4QD018 |
| Antral Biopsy | Culture | Processing of Antral Biopsy specimen on culture media as documented in A4QD019 |
| Nasal Swab | Culture | Processing of Nasal Swab specimen on culture media as documented in A4QD021 |
| Groin Swab, Axilla Swab, Rectal Swab | Culture | Processing of Alert Organism Screening sample on culture media as documented in A4QD020 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Mycobacteriology**<br>Sputum<br>tracheal Aspirate<br>bronchoalveolar lavage<br>Nasopharyngeal aspirate<br>body Fluids<br>Cerebrospinal Fluid<br>urine<br>Gastric Lavage<br>tissue<br>pus | Acid Fast Bacilli (AFB) Smear Microscopy | Kinyoun Stain method by using Light Microscope as documented TPM-A4QT021 |
| | Acid Fast Bacilli (AFB) Smear Microscopy | Auramine O stain method by using Flourecent Microscope as documented TPM-A4QT020 |
| | Auramine O stain method by using Flourecent Microscope as documented TPM-A4QT020 | Ziehl Neelsen stain method by using Light Microscope as documented TPM-A4QT036 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Fluorescence principle by using MGIT 960 as documented in A4QT016 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Multiplex Real-Time PCR technique by using ANYPLEX MTB/NTM as documented in A4QT014 |

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|---|---|---|
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Multiplex, Rapid Real-Time PCR technique by using GeneXpert® MTB/RIF as documented in A4QT034 |
| | Antimicrobial Susceptibility Testing | Method of proportion by using BACTEC MGIT 960 as documented in WI-A4QD024 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (MYCOBACTERIOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Mycobacteriology**<br>Sputum<br>tracheal Aspirate<br>bronchoalveolar lavage<br>Nasopharyngeal aspirate<br>body Fluids<br>Cerebrospinal Fluid<br>urine<br>Gastric Lavage<br>tissue<br>pus | Acid Fast Bacilli (AFB) Smear Microscopy | Kinyoun Stain method by using Light Microscope as documented TPM-A4QT021 |
| | Acid Fast Bacilli (AFB) Smear Microscopy | Auramine O stain method by using Flourecent Microscope as documented TPM-A4QT020 |
| | Auramine O stain method by using Flourecent Microscope as documented TPM-A4QT020 | Ziehl Neelsen stain method by using Light Microscope as documented TPM-A4QT036 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Fluorescence principle by using MGIT 960 as documented in A4QT016 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Multiplex Real-Time PCR technique by using ANYPLEX MTB/NTM as documented in A4QT014 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Multiplex, Rapid Real-Time PCR technique by using GeneXpert® MTB/RIF as documented in A4QT034 |
| | Antimicrobial Susceptibility Testing | Method of proportion by using BACTEC MGIT 960 as documented in WI-A4QD024 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY - SEROLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Mycobacteriology**<br>Sputum<br>tracheal Aspirate<br>bronchoalveolar lavage | Acid Fast Bacilli (AFB) Smear Microscopy | Kinyoun Stain method by using Light Microscope as documented TPM-A4QT021 |

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|---|---|---|
| Nasopharyngeal aspirate<br>body Fluids<br>Cerebrospinal Fluid<br>urine<br>Gastric Lavage<br>tissue<br>pus | Acid Fast Bacilli (AFB) Smear Microscopy | Auramine O stain method by using Flourecent Microscope as documented TPM-A4QT020 |
| | Auramine O stain method by using Flourecent Microscope as documented TPM-A4QT020 | Ziehl Neelsen stain method by using Light Microscope as documented TPM-A4QT036 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Fluorescence principle by using MGIT 960 as documented in A4QT016 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Multiplex Real-Time PCR technique by using ANYPLEX MTB/NTM as documented in A4QT014 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Multiplex, Rapid Real-Time PCR technique by using GeneXpert® MTB/RIF as documented in A4QT034 |
| | Antimicrobial Susceptibility Testing | Method of proportion by using BACTEC MGIT 960 as documented in WI-A4QD024 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Mycobacteriology**<br>Sputum<br>tracheal Aspirate<br>bronchoalveolar lavage<br>Nasopharyngeal aspirate<br>body Fluids<br>Cerebrospinal Fluid<br>urine<br>Gastric Lavage<br>tissue<br>pus | Acid Fast Bacilli (AFB) Smear Microscopy | Kinyoun Stain method by using Light Microscope as documented TPM-A4QT021 |
| | Acid Fast Bacilli (AFB) Smear Microscopy | Auramine O stain method by using Flourecent Microscope as documented TPM-A4QT020 |
| | Auramine O stain method by using Flourecent Microscope as documented TPM-A4QT020 | Ziehl Neelsen stain method by using Light Microscope as documented TPM-A4QT036 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Fluorescence principle by using MGIT 960 as documented in A4QT016 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Multiplex Real-Time PCR technique by using ANYPLEX MTB/NTM as documented in A4QT014 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Multiplex, Rapid Real-Time PCR technique by using GeneXpert® MTB/RIF as documented in A4QT034 |
| | Antimicrobial Susceptibility Testing | Method of proportion by using BACTEC MGIT 960 as documented in WI-A4QD024 |

## SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY - SEROLOGY)

| Specimen Tested | Type of Test/ Properties Measured/ | Test Methods,Specifications/ Equipment/Techniques Used |
|---|---|---|
| **Mycobacteriology**<br>Sputum<br>tracheal Aspirate<br>bronchoalveolar lavage<br>Nasopharyngeal aspirate<br>body Fluids<br>Cerebrospinal Fluid<br>urine<br>Gastric Lavage<br>tissue<br>pus | Acid Fast Bacilli (AFB) Smear Microscopy | Kinyoun Stain method by using Light Microscope as documented TPM-A4QT021 |
| | Acid Fast Bacilli (AFB) Smear Microscopy | Auramine O stain method by using Flourecent Microscope as documented TPM-A4QT020 |
| | Auramine O stain method by using Flourecent Microscope as documented TPM-A4QT020 | Ziehl Neelsen stain method by using Light Microscope as documented TPM-A4QT036 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Fluorescence principle by using MGIT 960 as documented in A4QT016 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Multiplex Real-Time PCR technique by using ANYPLEX MTB/NTM as documented in A4QT014 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Multiplex, Rapid Real-Time PCR technique by using GeneXpert® MTB/RIF as documented in A4QT034 |
| | Antimicrobial Susceptibility Testing | Method of proportion by using BACTEC MGIT 960 as documented in WI-A4QD024 |

## SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (IMMUNOLOGY)

| Specimen Tested | Type of Test/ Properties Measured/ | Test Methods,Specifications/ Equipment/Techniques Used |
|---|---|---|
| **Mycobacteriology**<br>Sputum<br>tracheal Aspirate<br>bronchoalveolar lavage<br>Nasopharyngeal aspirate<br>body Fluids<br>Cerebrospinal Fluid<br>urine<br>Gastric Lavage<br>tissue | Acid Fast Bacilli (AFB) Smear Microscopy | Kinyoun Stain method by using Light Microscope as documented TPM-A4QT021 |

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| pus | Acid Fast Bacilli (AFB) Smear Microscopy | Auramine O stain method by using Flourecent Microscope as documented TPM-A4QT020 |
| | Auramine O stain method by using Flourecent Microscope as documented TPM-A4QT020 | Ziehl Neelsen stain method by using Light Microscope as documented TPM-A4QT036 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Fluorescence principle by using MGIT 960 as documented in A4QT016 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Multiplex Real-Time PCR technique by using ANYPLEX MTB/NTM as documented in A4QT014 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Multiplex, Rapid Real-Time PCR technique by using GeneXpert® MTB/RIF as documented in A4QT034 |
| | Antimicrobial Susceptibility Testing | Method of proportion by using BACTEC MGIT 960 as documented in WI-A4QD024 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (PARASITOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Mycobacteriology**<br>Sputum<br>tracheal Aspirate<br>bronchoalveolar lavage<br>Nasopharyngeal aspirate<br>body Fluids<br>Cerebrospinal Fluid<br>urine<br>Gastric Lavage<br>tissue<br>pus | Acid Fast Bacilli (AFB) Smear Microscopy | Kinyoun Stain method by using Light Microscope as documented TPM-A4QT021 |
| | Acid Fast Bacilli (AFB) Smear Microscopy | Auramine O stain method by using Flourecent Microscope as documented TPM-A4QT020 |
| | Auramine O stain method by using Flourecent Microscope as documented TPM-A4QT020 | Ziehl Neelsen stain method by using Light Microscope as documented TPM-A4QT036 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Fluorescence principle by using MGIT 960 as documented in A4QT016 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Multiplex Real-Time PCR technique by using ANYPLEX MTB/NTM as documented in A4QT014 |
| | Isolation and Identification of Bacteria (Mycobacterium tuberculosis complex) | Multiplex, Rapid Real-Time PCR technique by using GeneXpert® MTB/RIF as documented in A4QT034 |
| | Antimicrobial Susceptibility Testing | Method of proportion by using BACTEC MGIT 960 as documented in WI-A4QD024 |

## SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY)

| Specimen Tested | Type of Test/ Properties Measured/ | Test Methods,Specifications/ Equipment/Techniques Used |
|---|---|---|
| **Bacteriology - Serology**<br>Plasma | Quantiferon TB Gold | Enzyme – linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD019 |

## SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (MYCOBACTERIOLOGY)

| Specimen Tested | Type of Test/ Properties Measured/ | Test Methods,Specifications/ Equipment/Techniques Used |
|---|---|---|
| **Bacteriology - Serology**<br>Plasma | Quantiferon TB Gold | Enzyme – linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD019 |

## SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY - SEROLOGY)

| Specimen Tested | Type of Test/ Properties Measured/ | Test Methods,Specifications/ Equipment/Techniques Used |
|---|---|---|
| **Bacteriology - Serology**<br>Plasma | Quantiferon TB Gold | Enzyme – linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD019 |

## SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY)

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

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|---|---|---|
| **Bacteriology - Serology**<br>Plasma | Quantiferon TB Gold | Enzyme – linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD019 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY - SEROLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Bacteriology - Serology**<br>Plasma | Quantiferon TB Gold | Enzyme – linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD019 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (IMMUNOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Bacteriology - Serology**<br>Plasma | Quantiferon TB Gold | Enzyme – linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD019 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (PARASITOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Bacteriology - Serology**<br>Plasma | Quantiferon TB Gold | Enzyme – linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD019 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Virology**<br>Cervical Swab, Gynecology Liquid Base Specimen | HPV Genotyping | Automated PCR test method by using Microlab Nimbus, as documented in:<br>i) Work Instruction A12QD002<br>ii) Technical Procedure Manual A12QT013 |
| **Virology**<br>Stool | Gastrointestinal Bacterial Pathogen Panel (GBPP) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD039<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| | Gastrointestinal Viral Pathogen Panel (GVPP) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD038<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| | Rapid Filmarray Gastrointestinal Panel (GIP) | Automated PCR procedure by using Biofire FilmArray, as documented in Work Instruction A12QD007 |
| Plasma | HIV-1 RNA Viral Load | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD010. |
| Serum , Plasma | HCV RNA Viral Load | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD009. |

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| | Dengue Differentiation Panel | Automated PCR procedure by using QIAamp MinElute, as documented in:<br>i) Work Instruction A12QD040<br>ii) Technical Procedure Manual A12QT011<br>iii) Technical Procedure Manual A12QT013 |
| Whole Blood | HIV-1 RNA Qualitative | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD011. |
| Whole Blood , Csf | Meningitis Viral Pathogen Panel (HSV1 & HSV2) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD035<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| Genital Swab , Lbc , Urine | Genital Ulcer Panel (HSV1 & HSV2) | Manual PCR procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD037<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| Upper And Lower Respiratory Specimens | Respiratory Bacterial Pathogen Panel | Automated PCR procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD034<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (MYCOBACTERIOLOGY)**

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

| | | |
|---|---|---|
| **Virology**<br>Cervical Swab, Gynecology Liquid Base Specimen | HPV Genotyping | Automated PCR test method by using Microlab Nimbus, as documented in:<br>i) Work Instruction A12QD002<br>ii) Technical Procedure Manual A12QT013 |
| **Virology**<br>Stool | Gastrointestinal Bacterial Pathogen Panel (GBPP) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD039<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| | Gastrointestinal Viral Pathogen Panel (GVPP) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD038<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| | Rapid Filmarray Gastrointestinal Panel (GIP) | Automated PCR procedure by using Biofire FilmArray, as documented in Work Instruction A12QD007 |
| Plasma | HIV-1 RNA Viral Load | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD010. |
| Serum , Plasma | HCV RNA Viral Load | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD009. |
| | Dengue Differentiation Panel | Automated PCR procedure by using QIAamp MinElute, as documented in:<br>i) Work Instruction A12QD040<br>ii) Technical Procedure Manual A12QT011<br>iii) Technical Procedure Manual A12QT013 |

| | | |
|---|---|---|
| Whole Blood | HIV-1 RNA Qualitative | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD011. |
| Whole Blood , Csf | Meningitis Viral Pathogen Panel (HSV1 & HSV2) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD035<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| Genital Swab , Lbc , Urine | Genital Ulcer Panel (HSV1 & HSV2) | Manual PCR procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD037<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| Upper And Lower Respiratory Specimens | Respiratory Bacterial Pathogen Panel | Automated PCR procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD034<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY - SEROLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Virology**<br>Cervical Swab, Gynecology Liquid Base Specimen | HPV Genotyping | Automated PCR test method by using Microlab Nimbus, as documented in:<br>i) Work Instruction A12QD002<br>ii) Technical Procedure Manual A12QT013 |

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|---|---|---|
| **Virology**<br>Stool | Gastrointestinal Bacterial Pathogen Panel (GBPP) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD039<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| | Gastrointestinal Viral Pathogen Panel (GVPP) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD038<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| | Rapid Filmarray Gastrointestinal Panel (GIP) | Automated PCR procedure by using Biofire FilmArray, as documented in Work Instruction A12QD007 |
| Plasma | HIV-1 RNA Viral Load | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD010. |
| Serum , Plasma | HCV RNA Viral Load | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD009. |
| | Dengue Differentiation Panel | Automated PCR procedure by using QIAamp MinElute, as documented in:<br>i) Work Instruction A12QD040<br>ii) Technical Procedure Manual A12QT011<br>iii) Technical Procedure Manual A12QT013 |
| Whole Blood | HIV-1 RNA Qualitative | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD011. |

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|---|---|---|
| Whole Blood , Csf | Meningitis Viral Pathogen Panel (HSV1 & HSV2) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD035<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| Genital Swab , Lbc , Urine | Genital Ulcer Panel (HSV1 & HSV2) | Manual PCR procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD037<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| Upper And Lower Respiratory Specimens | Respiratory Bacterial Pathogen Panel | Automated PCR procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD034<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Virology**<br>Cervical Swab, Gynecology Liquid Base Specimen | HPV Genotyping | Automated PCR test method by using Microlab Nimbus, as documented in:<br>i) Work Instruction A12QD002<br>ii) Technical Procedure Manual A12QT013 |

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|---|---|---|
| **Virology**<br>Stool | Gastrointestinal Bacterial Pathogen Panel (GBPP) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD039<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| | Gastrointestinal Viral Pathogen Panel (GVPP) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD038<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| | Rapid Filmarray Gastrointestinal Panel (GIP) | Automated PCR procedure by using Biofire FilmArray, as documented in Work Instruction A12QD007 |
| Plasma | HIV-1 RNA Viral Load | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD010. |
| Serum , Plasma | HCV RNA Viral Load | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD009. |
| | Dengue Differentiation Panel | Automated PCR procedure by using QIAamp MinElute, as documented in:<br>i) Work Instruction A12QD040<br>ii) Technical Procedure Manual A12QT011<br>iii) Technical Procedure Manual A12QT013 |
| Whole Blood | HIV-1 RNA Qualitative | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD011. |

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|---|---|---|
| Whole Blood , Csf | Meningitis Viral Pathogen Panel (HSV1 & HSV2) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD035<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| Genital Swab , Lbc , Urine | Genital Ulcer Panel (HSV1 & HSV2) | Manual PCR procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD037<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| Upper And Lower Respiratory Specimens | Respiratory Bacterial Pathogen Panel | Automated PCR procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD034<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY - SEROLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Virology**<br>Cervical Swab, Gynecology Liquid Base Specimen | HPV Genotyping | Automated PCR test method by using Microlab Nimbus, as documented in:<br>i) Work Instruction A12QD002<br>ii) Technical Procedure Manual A12QT013 |

| | | |
|---|---|---|
| **Virology**<br>Stool | Gastrointestinal Bacterial Pathogen Panel (GBPP) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD039<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| | Gastrointestinal Viral Pathogen Panel (GVPP) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD038<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| | Rapid Filmarray Gastrointestinal Panel (GIP) | Automated PCR procedure by using Biofire FilmArray, as documented in Work Instruction A12QD007 |
| Plasma | HIV-1 RNA Viral Load | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD010. |
| Serum , Plasma | HCV RNA Viral Load | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD009. |
| | Dengue Differentiation Panel | Automated PCR procedure by using QIAamp MinElute, as documented in:<br>i) Work Instruction A12QD040<br>ii) Technical Procedure Manual A12QT011<br>iii) Technical Procedure Manual A12QT013 |
| Whole Blood | HIV-1 RNA Qualitative | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD011. |

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|---|---|---|
| Whole Blood , Csf | Meningitis Viral Pathogen Panel (HSV1 & HSV2) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD035<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| Genital Swab , Lbc , Urine | Genital Ulcer Panel (HSV1 & HSV2) | Manual PCR procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD037<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| Upper And Lower Respiratory Specimens | Respiratory Bacterial Pathogen Panel | Automated PCR procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD034<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (IMMUNOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Virology**<br>Cervical Swab, Gynecology Liquid Base Specimen | HPV Genotyping | Automated PCR test method by using Microlab Nimbus, as documented in:<br>i) Work Instruction A12QD002<br>ii) Technical Procedure Manual A12QT013 |

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|---|---|---|
| **Virology**<br>Stool | Gastrointestinal Bacterial Pathogen Panel (GBPP) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD039<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| | Gastrointestinal Viral Pathogen Panel (GVPP) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD038<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| | Rapid Filmarray Gastrointestinal Panel (GIP) | Automated PCR procedure by using Biofire FilmArray, as documented in Work Instruction A12QD007 |
| Plasma | HIV-1 RNA Viral Load | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD010. |
| Serum , Plasma | HCV RNA Viral Load | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD009. |
| | Dengue Differentiation Panel | Automated PCR procedure by using QIAamp MinElute, as documented in:<br>i) Work Instruction A12QD040<br>ii) Technical Procedure Manual A12QT011<br>iii) Technical Procedure Manual A12QT013 |
| Whole Blood | HIV-1 RNA Qualitative | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD011. |

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|---|---|---|
| Whole Blood , Csf | Meningitis Viral Pathogen Panel (HSV1 & HSV2) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD035<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| Genital Swab , Lbc , Urine | Genital Ulcer Panel (HSV1 & HSV2) | Manual PCR procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD037<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| Upper And Lower Respiratory Specimens | Respiratory Bacterial Pathogen Panel | Automated PCR procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD034<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (PARASITOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Virology**<br>Cervical Swab, Gynecology Liquid Base Specimen | HPV Genotyping | Automated PCR test method by using Microlab Nimbus, as documented in:<br>i) Work Instruction A12QD002<br>ii) Technical Procedure Manual A12QT013 |

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|---|---|---|
| **Virology**<br>Stool | Gastrointestinal Bacterial Pathogen Panel (GBPP) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD039<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| | Gastrointestinal Viral Pathogen Panel (GVPP) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD038<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| | Rapid Filmarray Gastrointestinal Panel (GIP) | Automated PCR procedure by using Biofire FilmArray, as documented in Work Instruction A12QD007 |
| Plasma | HIV-1 RNA Viral Load | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD010. |
| Serum , Plasma | HCV RNA Viral Load | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD009. |
| | Dengue Differentiation Panel | Automated PCR procedure by using QIAamp MinElute, as documented in:<br>i) Work Instruction A12QD040<br>ii) Technical Procedure Manual A12QT011<br>iii) Technical Procedure Manual A12QT013 |
| Whole Blood | HIV-1 RNA Qualitative | Automated PCR procedure by using GeneXpert Dx, as documented in Work Instruction A12QD011. |

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|---|---|---|
| Whole Blood , Csf | Meningitis Viral Pathogen Panel (HSV1 & HSV2) | Automated PCR procedure by using Microlab Nimbus and manual procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD035<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| Genital Swab , Lbc , Urine | Genital Ulcer Panel (HSV1 & HSV2) | Manual PCR procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD037<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |
| Upper And Lower Respiratory Specimens | Respiratory Bacterial Pathogen Panel | Automated PCR procedure by using Geneall Ribospin, as documented in:<br>i) Work Instruction A12QD034<br>ii) Technical Procedure Manual A12QT012<br>iii) Technical Procedure Manual A12QT013 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Virology - Serology**<br>Serum<br>plasma (li-heparin, Naheparin, K2-edta, K3-edta, Acd, Cpd, Cp2d, Cpda, Na-citrate) | HIV 1/2 Screening HIV Antigen / Antibody | Electrochemiluminescence Immunoassay (eCLIA) method by using Roche Cobas e601 as documented in A2QD001 - Work Instruction – Test Handling on Roche Cobas 6000 and A1QW001 – Standard Technical ProcedureHIV COMBI PT |
| Serum<br>plasma (li-heparin, Naheparin, K2-edta, K3-edta, Acd, Cpda, Na-citrate) | Hepatitis C Virus Screening AntiHCV | Electrochemiluminescence Immunoassay (eCLIA) method by using Roche / Cobas e601 as documented in A2QD001 - Work Instruction - Test Handling on Roche Cobas 6000 and A1QW002 – Standard Technical ProcedureAnti-HCV |

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|---|---|---|
| Serum<br>plasma (citrate, Heparin, Edta) | HIV Line Immunoassay | Immunoblot method by using manual procedure as documented in A1QD017 - Processing of HIV Line Immunoassay |
| | HCV Line Immunoassay | Immunoblot method by using manual procedure as documented in A1QD020 - Processing of HCV Line Immunoassay. |
| Serum , Plasma | HIV Particle Agglutination | Particle Agglutination method by using manual procedure as documented in A1QD018- Processing of HIV Particle Agglutination (HIV-PA) Test |
| | Anti Hepatitis A Virus (HAV) Antibody | Electrochemiluminescence Immunoassay (ECLIA) by using Roche Cobas 6000 as documented in A1QW003 |
| | Anti Hepatitis B Surface (HBs) Antibody | Sandwich Principle Immunoassay by using Roche Cobas 6000 as documented in A1QW004 |
| | Hepatitis B Surface Antigen | Sandwich Principle Immunoassay by using Roche Cobas 6000 as documented in A1QW005 |
| | Syphilis | Rapid Plasma Reagin (RPR) Test method by using manual procedure as documented in A1QD002 |
| | Rheumatoid Factor | Immunoturbidimetric Assay by using Roche Cobas 6000 as documented in A1QD027 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (MYCOBACTERIOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Virology - Serology**<br>Serum<br>plasma (li-heparin, Naheparin, K2-edta, K3-edta, Acd, Cpd, Cp2d, Cpda, Na-citrate) | HIV 1/2 Screening HIV Antigen / Antibody | Electrochemiluminescence Immunoassay (eCLIA) method by using Roche Cobas e601 as documented in A2QD001 - Work Instruction – Test Handling on Roche Cobas 6000 and A1QW001 – Standard Technical ProcedureHIV COMBI PT |

| | | |
|---|---|---|
| Serum<br>plasma (li-heparin, Naheparin, K2-edta, K3-edta, Acd, Cpda, Na-citrate) | Hepatitis C Virus Screening AntiHCV | Electrochemiluminescence Immunoassay (eCLIA) method by using Roche / Cobas e601 as documented in A2QD001 - Work Instruction - Test Handling on Roche Cobas 6000 and A1QW002 – Standard Technical ProcedureAnti-HCV |
| Serum<br>plasma (citrate, Heparin, Edta) | HIV Line Immunoassay | Immunoblot method by using manual procedure as documented in A1QD017 - Processing of HIV Line Immunoassay |
| | HCV Line Immunoassay | Immunoblot method by using manual procedure as documented in A1QD020 - Processing of HCV Line Immunoassay. |
| Serum , Plasma | HIV Particle Agglutination | Particle Agglutination method by using manual procedure as documented in A1QD018- Processing of HIV Particle Agglutination (HIV-PA) Test |
| | Anti Hepatitis A Virus (HAV) Antibody | Electrochemiluminescence Immunoassay (ECLIA) by using Roche Cobas 6000 as documented in A1QW003 |
| | Anti Hepatitis B Surface (HBs) Antibody | Sandwich Principle Immunoassay by using Roche Cobas 6000 as documented in A1QW004 |
| | Hepatitis B Surface Antigen | Sandwich Principle Immunoassay by using Roche Cobas 6000 as documented in A1QW005 |
| | Syphilis | Rapid Plasma Reagin (RPR) Test method by using manual procedure as documented in A1QD002 |
| | Rheumatoid Factor | Immunoturbidimetric Assay by using Roche Cobas 6000 as documented in A1QD027 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY - SEROLOGY)**

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

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|---|---|---|
| **Virology - Serology**<br>Serum<br>plasma (li-heparin, Naheparin, K2-edta, K3-edta, Acd, Cpd, Cp2d, Cpda, Na-citrate) | HIV 1/2 Screening HIV Antigen / Antibody | Electrochemiluminescence Immunoassay (eCLIA) method by using Roche Cobas e601 as documented in A2QD001 - Work Instruction – Test Handling on Roche Cobas 6000 and A1QW001 – Standard Technical ProcedureHIV COMBI PT |
| Serum<br>plasma (li-heparin, Naheparin, K2-edta, K3-edta, Acd, Cpda, Na-citrate) | Hepatitis C Virus Screening AntiHCV | Electrochemiluminescence Immunoassay (eCLIA) method by using Roche / Cobas e601 as documented in A2QD001 - Work Instruction - Test Handling on Roche Cobas 6000 and A1QW002 – Standard Technical ProcedureAnti-HCV |
| Serum<br>plasma (citrate, Heparin, Edta) | HIV Line Immunoassay | Immunoblot method by using manual procedure as documented in A1QD017 - Processing of HIV Line Immunoassay |
| | HCV Line Immunoassay | Immunoblot method by using manual procedure as documented in A1QD020 - Processing of HCV Line Immunoassay. |
| Serum , Plasma | HIV Particle Agglutination | Particle Agglutination method by using manual procedure as documented in A1QD018- Processing of HIV Particle Agglutination (HIV-PA) Test |
| | Anti Hepatitis A Virus (HAV) Antibody | Electrochemiluminescence Immunoassay (ECLIA) by using Roche Cobas 6000 as documented in A1QW003 |
| | Anti Hepatitis B Surface (HBs) Antibody | Sandwich Principle Immunoassay by using Roche Cobas 6000 as documented in A1QW004 |
| | Hepatitis B Surface Antigen | Sandwich Principle Immunoassay by using Roche Cobas 6000 as documented in A1QW005 |
| | Syphilis | Rapid Plasma Reagin (RPR) Test method by using manual procedure as documented in A1QD002 |
| | Rheumatoid Factor | Immunoturbidimetric Assay by using Roche Cobas 6000 as documented in A1QD027 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Virology - Serology**<br>Serum<br>plasma (li-heparin, Naheparin, K2-edta, K3-edta, Acd, Cpd, Cp2d, Cpda, Na-citrate) | HIV 1/2 Screening HIV Antigen / Antibody | Electrochemiluminescence Immunoassay (eCLIA) method by using Roche Cobas e601 as documented in A2QD001 - Work Instruction – Test Handling on Roche Cobas 6000 and A1QW001 – Standard Technical ProcedureHIV COMBI PT |
| Serum<br>plasma (li-heparin, Naheparin, K2-edta, K3-edta, Acd, Cpda, Na-citrate) | Hepatitis C Virus Screening AntiHCV | Electrochemiluminescence Immunoassay (eCLIA) method by using Roche / Cobas e601 as documented in A2QD001 - Work Instruction - Test Handling on Roche Cobas 6000 and A1QW002 – Standard Technical ProcedureAnti-HCV |
| Serum<br>plasma (citrate, Heparin, Edta) | HIV Line Immunoassay | Immunoblot method by using manual procedure as documented in A1QD017 - Processing of HIV Line Immunoassay |
| | HCV Line Immunoassay | Immunoblot method by using manual procedure as documented in A1QD020 - Processing of HCV Line Immunoassay. |
| Serum , Plasma | HIV Particle Agglutination | Particle Agglutination method by using manual procedure as documented in A1QD018- Processing of HIV Particle Agglutination (HIV-PA) Test |
| | Anti Hepatitis A Virus (HAV) Antibody | Electrochemiluminescence Immunoassay (ECLIA) by using Roche Cobas 6000 as documented in A1QW003 |
| | Anti Hepatitis B Surface (HBs) Antibody | Sandwich Principle Immunoassay by using Roche Cobas 6000 as documented in A1QW004 |
| | Hepatitis B Surface Antigen | Sandwich Principle Immunoassay by using Roche Cobas 6000 as documented in A1QW005 |
| | Syphilis | Rapid Plasma Reagin (RPR) Test method by using manual procedure as documented in A1QD002 |

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|---|---|---|
| | Rheumatoid Factor | Immunoturbidimetric Assay by using Roche Cobas 6000 as documented in A1QD027 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY - SEROLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Virology - Serology**<br>Serum<br>plasma (li-heparin, Naheparin, K2-edta, K3-edta, Acd, Cpd, Cp2d, Cpda, Na-citrate) | HIV 1/2 Screening HIV Antigen / Antibody | Electrochemiluminescence Immunoassay (eCLIA) method by using Roche Cobas e601 as documented in A2QD001 - Work Instruction – Test Handling on Roche Cobas 6000 and A1QW001 – Standard Technical ProcedureHIV COMBI PT |
| Serum<br>plasma (li-heparin, Naheparin, K2-edta, K3-edta, Acd, Cpda, Na-citrate) | Hepatitis C Virus Screening AntiHCV | Electrochemiluminescence Immunoassay (eCLIA) method by using Roche / Cobas e601 as documented in A2QD001 - Work Instruction - Test Handling on Roche Cobas 6000 and A1QW002 – Standard Technical ProcedureAnti-HCV |
| Serum<br>plasma (citrate, Heparin, Edta) | HIV Line Immunoassay | Immunoblot method by using manual procedure as documented in A1QD017 - Processing of HIV Line Immunoassay |
| | HCV Line Immunoassay | Immunoblot method by using manual procedure as documented in A1QD020 - Processing of HCV Line Immunoassay. |
| Serum , Plasma | HIV Particle Agglutination | Particle Agglutination method by using manual procedure as documented in A1QD018- Processing of HIV Particle Agglutination (HIV-PA) Test |
| | Anti Hepatitis A Virus (HAV) Antibody | Electrochemiluminescence Immunoassay (ECLIA) by using Roche Cobas 6000 as documented in A1QW003 |
| | Anti Hepatitis B Surface (HBs) Antibody | Sandwich Principle Immunoassay by using Roche Cobas 6000 as documented in A1QW004 |

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|---|---|---|
| | Hepatitis B Surface Antigen | Sandwich Principle Immunoassay by using Roche Cobas 6000 as documented in A1QW005 |
| | Syphilis | Rapid Plasma Reagin (RPR) Test method by using manual procedure as documented in A1QD002 |
| | Rheumatoid Factor | Immunoturbidimetric Assay by using Roche Cobas 6000 as documented in A1QD027 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (IMMUNOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Virology - Serology**<br>Serum<br>plasma (li-heparin, Naheparin, K2-edta, K3-edta, Acd, Cpd, Cp2d, Cpda, Na-citrate) | HIV 1/2 Screening HIV Antigen / Antibody | Electrochemiluminescence Immunoassay (eCLIA) method by using Roche Cobas e601 as documented in A2QD001 - Work Instruction – Test Handling on Roche Cobas 6000 and A1QW001 – Standard Technical ProcedureHIV COMBI PT |
| Serum<br>plasma (li-heparin, Naheparin, K2-edta, K3-edta, Acd, Cpda, Na-citrate) | Hepatitis C Virus Screening AntiHCV | Electrochemiluminescence Immunoassay (eCLIA) method by using Roche / Cobas e601 as documented in A2QD001 - Work Instruction - Test Handling on Roche Cobas 6000 and A1QW002 – Standard Technical ProcedureAnti-HCV |
| Serum<br>plasma (citrate, Heparin, Edta) | HIV Line Immunoassay | Immunoblot method by using manual procedure as documented in A1QD017 - Processing of HIV Line Immunoassay |
| | HCV Line Immunoassay | Immunoblot method by using manual procedure as documented in A1QD020 - Processing of HCV Line Immunoassay. |
| Serum , Plasma | HIV Particle Agglutination | Particle Agglutination method by using manual procedure as documented in A1QD018- Processing of HIV Particle Agglutination (HIV-PA) Test |

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|---|---|---|
| | Anti Hepatitis A Virus (HAV) Antibody | Electrochemiluminescence Immunoassay (ECLIA) by using Roche Cobas 6000 as documented in A1QW003 |
| | Anti Hepatitis B Surface (HBs) Antibody | Sandwich Principle Immunoassay by using Roche Cobas 6000 as documented in A1QW004 |
| | Hepatitis B Surface Antigen | Sandwich Principle Immunoassay by using Roche Cobas 6000 as documented in A1QW005 |
| | Syphilis | Rapid Plasma Reagin (RPR) Test method by using manual procedure as documented in A1QD002 |
| | Rheumatoid Factor | Immunoturbidimetric Assay by using Roche Cobas 6000 as documented in A1QD027 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (PARASITOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Virology - Serology**<br>Serum<br>plasma (li-heparin, Naheparin, K2-edta, K3-edta, Acd, Cpd, Cp2d, Cpda, Na-citrate) | HIV 1/2 Screening HIV Antigen / Antibody | Electrochemiluminescence Immunoassay (eCLIA) method by using Roche Cobas e601 as documented in A2QD001 - Work Instruction – Test Handling on Roche Cobas 6000 and A1QW001 – Standard Technical ProcedureHIV COMBI PT |
| Serum<br>plasma (li-heparin, Naheparin, K2-edta, K3-edta, Acd, Cpda, Na-citrate) | Hepatitis C Virus Screening AntiHCV | Electrochemiluminescence Immunoassay (eCLIA) method by using Roche / Cobas e601 as documented in A2QD001 - Work Instruction - Test Handling on Roche Cobas 6000 and A1QW002 – Standard Technical ProcedureAnti-HCV |
| Serum<br>plasma (citrate, Heparin, Edta) | HIV Line Immunoassay | Immunoblot method by using manual procedure as documented in A1QD017 - Processing of HIV Line Immunoassay |
| | HCV Line Immunoassay | Immunoblot method by using manual procedure as documented in A1QD020 - Processing of HCV Line Immunoassay. |

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| Serum , Plasma | HIV Particle Agglutination | Particle Agglutination method by using manual procedure as documented in A1QD018-Processing of HIV Particle Agglutination (HIV-PA) Test |
| | Anti Hepatitis A Virus (HAV) Antibody | Electrochemiluminescence Immunoassay (ECLIA) by using Roche Cobas 6000 as documented in A1QW003 |
| | Anti Hepatitis B Surface (HBs) Antibody | Sandwich Principle Immunoassay by using Roche Cobas 6000 as documented in A1QW004 |
| | Hepatitis B Surface Antigen | Sandwich Principle Immunoassay by using Roche Cobas 6000 as documented in A1QW005 |
| | Syphilis | Rapid Plasma Reagin (RPR) Test method by using manual procedure as documented in A1QD002 |
| | Rheumatoid Factor | Immunoturbidimetric Assay by using Roche Cobas 6000 as documented in A1QD027 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Immunology**<br>Serum | Anti-Double Stranded DNA (DsDNA) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD008 |
| | Diabetic Mellitus Type 1: AntiIslet Cell Cytoplasmic Autoantibodies (Anti ICA) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Diabetic Mellitus Type 1: AntiGlutamic Acid Decarboxylase Autoantibodies (Anti GAD) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Diabetic Mellitus Type 1: AntiInsulinoma-Associated-2 Autoantibodies (Anti IA-2: Also known as Anti-tyrosine phosphatase) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |

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| | Autoimmune Liver Autoantibodies | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD030 |
| **Immunology**<br>Serum , Csf | Anti Ganglioside Antibody | Enzyme Immunodot Assay method by using manual procedure as documented in A1QD023 |
| Serum , Plasma | Anti-Nuclear Antibody (ANA) IFA/IIFT | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD024 |
| | Extractable Nuclear Antigen Panels (ENA) | Immunoblot method by using Eurolinemaster and manual procedure as documented in A1QD023 |
| | Anti-Neutrophil Cytoplasmic Antibody (ANCA) IFA/IIFT Screening | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD025 |
| | Myeloperoxidase (MPO) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| | Proteinase 3 (PR3) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| | Glomerular Basement Membrane (GBM) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| | Anti-Acetylcholine Receptor Antibodies (AcHR) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD032 |
| | Anti-Phospholipase-A2- Receptor Antibodies (PLA2R) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD031 |

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| | Anti-Phospholipase-A2- Receptor Antibodies (PLA2R) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD034 |
| | Myositis / Myopathies Antibodies | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| | Liver Specific Autoantibodies | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| | Total IgE | Electrochemiluminescence Immunoassay (ECLIA) by using Roche Cobas 6000 as documented in A2QD001 |
| | Specific IgE<br>i. Prawn<br>ii. Peanut<br>iii. Cashew<br>iv. Cow's Milk<br>v. Egg<br>vi. Sesame Seed<br>vii. Soy<br>viii. Wheat Grain<br>ix. Cat Epithelium / Dander<br>x. Bermuda Grass<br>xi. House Dust Mite (Dermatophagoides Pteronyssinus)<br>xii. Aspergillus Fumigatus<br>xiii. Alternaria Alternata / Tenuis<br>xiv. Animal Epithelium Mix<br>xv. Mould Mix | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| Serum , Csf , Plasma | Anti-Aquaporin 4 (AQP-4) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD028 |
| | Autoimmune Encephalitis | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD039 |

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| | Neuronal Antibodies (Paraneoplastic Antibodies) | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| | Anti–N-Methyl-D-Aspartate Receptor (NMDAR) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD026 |
| Serum , Cs , Plasma | Anti-Myelin Oligodendrocyte Glycoprotein (MOG) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD029 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (MYCOBACTERIOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Immunology**<br>Serum | Anti-Double Stranded DNA (DsDNA) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD008 |
| | Diabetic Mellitus Type 1: AntiIslet Cell Cytoplasmic Autoantibodies (Anti ICA) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Diabetic Mellitus Type 1: AntiGlutamic Acid Decarboxylase Autoantibodies (Anti GAD) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Diabetic Mellitus Type 1: AntiInsulinoma-Associated-2 Autoantibodies (Anti IA-2: Also known as Anti-tyrosine phosphatase) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Autoimmune Liver Autoantibodies | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD030 |

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| **Immunology**<br>Serum , Csf | Anti Ganglioside Antibody | Enzyme Immunodot Assay method by using manual procedure as documented in A1QD023 |
| Serum , Plasma | Anti-Nuclear Antibody (ANA) IFA/IIFT | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD024 |
| | Extractable Nuclear Antigen Panels (ENA) | Immunoblot method by using Eurolinemaster and manual procedure as documented in A1QD023 |
| | Anti-Neutrophil Cytoplasmic Antibody (ANCA) IFA/IIFT Screening | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD025 |
| | Myeloperoxidase (MPO) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| | Proteinase 3 (PR3) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| | Glomerular Basement Membrane (GBM) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| | Anti-Acetylcholine Receptor Antibodies (AcHR) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD032 |
| | Anti-Phospholipase-A2- Receptor Antibodies (PLA2R) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD031 |
| | Anti-Phospholipase-A2- Receptor Antibodies (PLA2R) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD034 |

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| | Myositis / Myopathies Antibodies | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| | Liver Specific Autoantibodies | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| | Total IgE | Electrochemiluminescence Immunoassay (ECLIA) by using Roche Cobas 6000 as documented in A2QD001 |
| | Specific IgE<br>i. Prawn<br>ii. Peanut<br>iii. Cashew<br>iv. Cow's Milk<br>v. Egg<br>vi. Sesame Seed<br>vii. Soy<br>viii. Wheat Grain<br>ix. Cat Epithelium / Dander<br>x. Bermuda Grass<br>xi. House Dust Mite (Dermatophagoides Pteronyssinus)<br>xii. Aspergillus Fumigatus<br>xiii. Alternaria Alternata / Tenuis<br>xiv. Animal Epithelium Mix<br>xv. Mould Mix | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| Serum , Csf , Plasma | Anti-Aquaporin 4 (AQP-4) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD028 |
| | Autoimmune Encephalitis | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD039 |
| | Neuronal Antibodies (Paraneoplastic Antibodies) | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |

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| | Anti–N-Methyl-D-Aspartate Receptor (NMDAR) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD026 |
| Serum , Cs , Plasma | Anti-Myelin Oligodendrocyte Glycoprotein (MOG) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD029 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY - SEROLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Immunology**<br>Serum | Anti-Double Stranded DNA (DsDNA) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD008 |
| | Diabetic Mellitus Type 1: AntiIslet Cell Cytoplasmic Autoantibodies (Anti ICA) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Diabetic Mellitus Type 1: AntiGlutamic Acid Decarboxylase Autoantibodies (Anti GAD) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Diabetic Mellitus Type 1: AntiInsulinoma-Associated-2 Autoantibodies (Anti IA-2: Also known as Anti-tyrosine phosphatase) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Autoimmune Liver Autoantibodies | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD030 |
| **Immunology**<br>Serum , Csf | Anti Ganglioside Antibody | Enzyme Immunodot Assay method by using manual procedure as documented in A1QD023 |

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| Serum , Plasma | Anti-Nuclear Antibody (ANA) IFA/IIFT | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD024 |
| | Extractable Nuclear Antigen Panels (ENA) | Immunoblot method by using Eurolinemaster and manual procedure as documented in A1QD023 |
| | Anti-Neutrophil Cytoplasmic Antibody (ANCA) IFA/IIFT Screening | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD025 |
| | Myeloperoxidase (MPO) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| | Proteinase 3 (PR3) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| | Glomerular Basement Membrane (GBM) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| | Anti-Acetylcholine Receptor Antibodies (AcHR) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD032 |
| | Anti-Phospholipase-A2- Receptor Antibodies (PLA2R) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD031 |
| | Anti-Phospholipase-A2- Receptor Antibodies (PLA2R) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD034 |
| | Myositis / Myopathies Antibodies | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |

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| | Liver Specific Autoantibodies | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| | Total IgE | Electrochemiluminescence Immunoassay (ECLIA) by using Roche Cobas 6000 as documented in A2QD001 |
| | Specific IgE<br>i. Prawn<br>ii. Peanut<br>iii. Cashew<br>iv. Cow's Milk<br>v. Egg<br>vi. Sesame Seed<br>vii. Soy<br>viii. Wheat Grain<br>ix. Cat Epithelium / Dander<br>x. Bermuda Grass<br>xi. House Dust Mite (Dermatophagoides Pteronyssinus)<br>xii. Aspergillus Fumigatus<br>xiii. Alternaria Alternata / Tenuis<br>xiv. Animal Epithelium Mix<br>xv. Mould Mix | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| Serum , Csf , Plasma | Anti-Aquaporin 4 (AQP-4) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD028 |
| | Autoimmune Encephalitis | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD039 |
| | Neuronal Antibodies (Paraneoplastic Antibodies) | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| | Anti–N-Methyl-D-Aspartate Receptor (NMDAR) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD026 |

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| Serum , Cs , Plasma | Anti-Myelin Oligodendrocyte Glycoprotein (MOG) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD029 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Immunology**<br>Serum | Anti-Double Stranded DNA (DsDNA) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD008 |
| | Diabetic Mellitus Type 1: AntiIslet Cell Cytoplasmic Autoantibodies (Anti ICA) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Diabetic Mellitus Type 1: AntiGlutamic Acid Decarboxylase Autoantibodies (Anti GAD) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Diabetic Mellitus Type 1: AntiInsulinoma-Associated-2 Autoantibodies (Anti IA-2: Also known as Anti-tyrosine phosphatase) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Autoimmune Liver Autoantibodies | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD030 |
| **Immunology**<br>Serum , Csf | Anti Ganglioside Antibody | Enzyme Immunodot Assay method by using manual procedure as documented in A1QD023 |
| Serum , Plasma | Anti-Nuclear Antibody (ANA) IFA/IIFT | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD024 |

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| Extractable Nuclear Antigen Panels (ENA) | Immunoblot method by using Eurolinemaster and manual procedure as documented in A1QD023 |
| Anti-Neutrophil Cytoplasmic Antibody (ANCA) IFA/IIFT Screening | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD025 |
| Myeloperoxidase (MPO) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| Proteinase 3 (PR3) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| Glomerular Basement Membrane (GBM) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| Anti-Acetylcholine Receptor Antibodies (AcHR) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD032 |
| Anti-Phospholipase-A2- Receptor Antibodies (PLA2R) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD031 |
| Anti-Phospholipase-A2- Receptor Antibodies (PLA2R) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD034 |
| Myositis / Myopathies Antibodies | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| Liver Specific Autoantibodies | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |

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| | Total IgE | Electrochemiluminescence Immunoassay (ECLIA) by using Roche Cobas 6000 as documented in A2QD001 |
| | Specific IgE<br>i. Prawn<br>ii. Peanut<br>iii. Cashew<br>iv. Cow's Milk<br>v. Egg<br>vi. Sesame Seed<br>vii. Soy<br>viii. Wheat Grain<br>ix. Cat Epithelium / Dander<br>x. Bermuda Grass<br>xi. House Dust Mite (Dermatophagoides Pteronyssinus)<br>xii. Aspergillus Fumigatus<br>xiii. Alternaria Alternata / Tenuis<br>xiv. Animal Epithelium Mix<br>xv. Mould Mix | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| Serum , Csf , Plasma | Anti-Aquaporin 4 (AQP-4) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD028 |
| | Autoimmune Encephalitis | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD039 |
| | Neuronal Antibodies (Paraneoplastic Antibodies) | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| | Anti–N-Methyl-D-Aspartate Receptor (NMDAR) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD026 |
| Serum , Cs , Plasma | Anti-Myelin Oligodendrocyte Glycoprotein (MOG) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD029 |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY - SEROLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Immunology**<br>Serum | Anti-Double Stranded DNA (DsDNA) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD008 |
| | Diabetic Mellitus Type 1: AntiIslet Cell Cytoplasmic Autoantibodies (Anti ICA) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Diabetic Mellitus Type 1: AntiGlutamic Acid Decarboxylase Autoantibodies (Anti GAD) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Diabetic Mellitus Type 1: AntiInsulinoma-Associated-2 Autoantibodies (Anti IA-2: Also known as Anti-tyrosine phosphatase) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Autoimmune Liver Autoantibodies | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD030 |
| **Immunology**<br>Serum , Csf | Anti Ganglioside Antibody | Enzyme Immunodot Assay method by using manual procedure as documented in A1QD023 |
| Serum , Plasma | Anti-Nuclear Antibody (ANA) IFA/IIFT | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD024 |
| | Extractable Nuclear Antigen Panels (ENA) | Immunoblot method by using Eurolinemaster and manual procedure as documented in A1QD023 |

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| Anti-Neutrophil Cytoplasmic Antibody (ANCA) IFA/IIFT Screening | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD025 |
| Myeloperoxidase (MPO) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| Proteinase 3 (PR3) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| Glomerular Basement Membrane (GBM) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| Anti-Acetylcholine Receptor Antibodies (AcHR) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD032 |
| Anti-Phospholipase-A2- Receptor Antibodies (PLA2R) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD031 |
| Anti-Phospholipase-A2- Receptor Antibodies (PLA2R) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD034 |
| Myositis / Myopathies Antibodies | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| Liver Specific Autoantibodies | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| Total IgE | Electrochemiluminescence Immunoassay (ECLIA) by using Roche Cobas 6000 as documented in A2QD001 |

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| | Specific IgE<br>i. Prawn<br>ii. Peanut<br>iii. Cashew<br>iv. Cow's Milk<br>v. Egg<br>vi. Sesame Seed<br>vii. Soy<br>viii. Wheat Grain<br>ix. Cat Epithelium / Dander<br>x. Bermuda Grass<br>xi. House Dust Mite (Dermatophagoides Pteronyssinus)<br>xii. Aspergillus Fumigatus<br>xiii. Alternaria Alternata / Tenuis<br>xiv. Animal Epithelium Mix<br>xv. Mould Mix | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| Serum , Csf , Plasma | Anti-Aquaporin 4 (AQP-4) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD028 |
| | Autoimmune Encephalitis | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD039 |
| | Neuronal Antibodies (Paraneoplastic Antibodies) | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| | Anti–N-Methyl-D-Aspartate Receptor (NMDAR) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD026 |
| Serum , Cs , Plasma | Anti-Myelin Oligodendrocyte Glycoprotein (MOG) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD029 |



**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (IMMUNOLOGY)**

| Specimen Tested | Type of Test/ Properties Measured/ | Test Methods,Specifications/ Equipment/Techniques Used |
|---|---|---|
| **Immunology**<br>Serum | Anti-Double Stranded DNA (DsDNA) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD008 |
| | Diabetic Mellitus Type 1: AntiIslet Cell Cytoplasmic Autoantibodies (Anti ICA) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Diabetic Mellitus Type 1: AntiGlutamic Acid Decarboxylase Autoantibodies (Anti GAD) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Diabetic Mellitus Type 1: AntiInsulinoma-Associated-2 Autoantibodies (Anti IA-2: Also known as Anti-tyrosine phosphatase) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Autoimmune Liver Autoantibodies | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD030 |
| **Immunology**<br>Serum , Csf | Anti Ganglioside Antibody | Enzyme Immunodot Assay method by using manual procedure as documented in A1QD023 |
| Serum , Plasma | Anti-Nuclear Antibody (ANA) IFA/IIFT | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD024 |
| | Extractable Nuclear Antigen Panels (ENA) | Immunoblot method by using Eurolinemaster and manual procedure as documented in A1QD023 |
| | Anti-Neutrophil Cytoplasmic Antibody (ANCA) IFA/IIFT Screening | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD025 |
| | Myeloperoxidase (MPO) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |

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| Proteinase 3 (PR3) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| Glomerular Basement Membrane (GBM) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| Anti-Acetylcholine Receptor Antibodies (AcHR) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD032 |
| Anti-Phospholipase-A2- Receptor Antibodies (PLA2R) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD031 |
| Anti-Phospholipase-A2- Receptor Antibodies (PLA2R) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD034 |
| Myositis / Myopathies Antibodies | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| Liver Specific Autoantibodies | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| Total IgE | Electrochemiluminescence Immunoassay (ECLIA) by using Roche Cobas 6000 as documented in A2QD001 |

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| | Specific IgE<br>i. Prawn<br>ii. Peanut<br>iii. Cashew<br>iv. Cow's Milk<br>v. Egg<br>vi. Sesame Seed<br>vii. Soy<br>viii. Wheat Grain<br>ix. Cat Epithelium / Dander<br>x. Bermuda Grass<br>xi. House Dust Mite (Dermatophagoides Pteronyssinus)<br>xii. Aspergillus Fumigatus<br>xiii. Alternaria Alternata / Tenuis<br>xiv. Animal Epithelium Mix<br>xv. Mould Mix | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| Serum , Csf , Plasma | Anti-Aquaporin 4 (AQP-4) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD028 |
| | Autoimmune Encephalitis | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD039 |
| | Neuronal Antibodies (Paraneoplastic Antibodies) | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| | Anti–N-Methyl-D-Aspartate Receptor (NMDAR) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD026 |
| Serum , Cs , Plasma | Anti-Myelin Oligodendrocyte Glycoprotein (MOG) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD029 |



**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (PARASITOLOGY)**

| Specimen Tested | Type of Test/ Properties Measured/ | Test Methods,Specifications/ Equipment/Techniques Used |
|---|---|---|
| **Immunology**<br>Serum | Anti-Double Stranded DNA (DsDNA) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD008 |
| | Diabetic Mellitus Type 1: AntiIslet Cell Cytoplasmic Autoantibodies (Anti ICA) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Diabetic Mellitus Type 1: AntiGlutamic Acid Decarboxylase Autoantibodies (Anti GAD) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Diabetic Mellitus Type 1: AntiInsulinoma-Associated-2 Autoantibodies (Anti IA-2: Also known as Anti-tyrosine phosphatase) | Chemiluminescence Immunoassay (CLIA) by using Snibe Maglumi System as documented in A1QD035 |
| | Autoimmune Liver Autoantibodies | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD030 |
| **Immunology**<br>Serum , Csf | Anti Ganglioside Antibody | Enzyme Immunodot Assay method by using manual procedure as documented in A1QD023 |
| Serum , Plasma | Anti-Nuclear Antibody (ANA) IFA/IIFT | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD024 |
| | Extractable Nuclear Antigen Panels (ENA) | Immunoblot method by using Eurolinemaster and manual procedure as documented in A1QD023 |
| | Anti-Neutrophil Cytoplasmic Antibody (ANCA) IFA/IIFT Screening | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD025 |
| | Myeloperoxidase (MPO) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |

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| Proteinase 3 (PR3) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| Glomerular Basement Membrane (GBM) | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| Anti-Acetylcholine Receptor Antibodies (AcHR) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD032 |
| Anti-Phospholipase-A2- Receptor Antibodies (PLA2R) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD031 |
| Anti-Phospholipase-A2- Receptor Antibodies (PLA2R) | Enzyme-linked Immunosorbent Assay (ELISA) method by using Thermo ELISA washer, Robonik ELISA washer and Thermo ELISA reader as documented in A1QD034 |
| Myositis / Myopathies Antibodies | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| Liver Specific Autoantibodies | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| Total IgE | Electrochemiluminescence Immunoassay (ECLIA) by using Roche Cobas 6000 as documented in A2QD001 |

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|---|---|---|
| | Specific IgE<br>i. Prawn<br>ii. Peanut<br>iii. Cashew<br>iv. Cow's Milk<br>v. Egg<br>vi. Sesame Seed<br>vii. Soy<br>viii. Wheat Grain<br>ix. Cat Epithelium / Dander<br>x. Bermuda Grass<br>xi. House Dust Mite (Dermatophagoides Pteronyssinus)<br>xii. Aspergillus Fumigatus<br>xiii. Alternaria Alternata / Tenuis<br>xiv. Animal Epithelium Mix<br>xv. Mould Mix | Fluorescence Enzyme Immunoassay (FEIA) method by using Phadia 250 Test System as documented in A1QD016 |
| Serum , Csf , Plasma | Anti-Aquaporin 4 (AQP-4) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD028 |
| | Autoimmune Encephalitis | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD039 |
| | Neuronal Antibodies (Paraneoplastic Antibodies) | Immunoblot method by using Eurolinemaster Test System or manual procedure as documented in A1QD023 |
| | Anti–N-Methyl-D-Aspartate Receptor (NMDAR) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD026 |
| Serum , Cs , Plasma | Anti-Myelin Oligodendrocyte Glycoprotein (MOG) | Indirect Immunofluorescence Test (IIFT) method by using Nikon Immunofluorescent Microscope & Olympus Immunofluorescent Microscope as documented in A1QD029 |



**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY)**

| Specimen Tested | Type of Test/ Properties Measured/ | Test Methods,Specifications/ Equipment/Techniques Used |
|---|---|---|
| **Parasitology**<br>Blood Smear , Whole Blood | Blood Film Malaria Parasite (BFMP) | Blood Films for Microscopy Parasite<br>(BFMP) method by using manual slide<br>smear procedure as documented in the<br>following:<br>i) A3QD006 - Processing of Malaria<br>Parasite Slide<br>ii) A3QT014 - Blood Film Malarial Parasite Smear Technique<br>iii) A3QT015 - Giemsa's Azur Eosin<br>Methylene Blue Solution Procedure<br>iv) A3QT016 - Malaria Parasite Density Count<br>v) A3QT017 - Positive Control Slides<br>of Malaria<br>vi) A3QT018 - Microscopy Examination of Thick and Thin Blood Films for Identification of Malaria Parasites |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (MYCOBACTERIOLOGY)**

| Specimen Tested | Type of Test/ Properties Measured/ | Test Methods,Specifications/ Equipment/Techniques Used |
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| **Parasitology**<br>Blood Smear , Whole Blood | Blood Film Malaria Parasite (BFMP) | Blood Films for Microscopy Parasite<br>(BFMP) method by using manual slide<br>smear procedure as documented in the<br>following:<br>i) A3QD006 - Processing of Malaria<br>Parasite Slide<br>ii) A3QT014 - Blood Film Malarial Parasite Smear Technique<br>iii) A3QT015 - Giemsa's Azur Eosin<br>Methylene Blue Solution Procedure<br>iv) A3QT016 - Malaria Parasite Density Count<br>v) A3QT017 - Positive Control Slides<br>of Malaria<br>vi) A3QT018 - Microscopy Examination of Thick and Thin Blood Films for Identification of Malaria Parasites |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY - SEROLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
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| **Parasitology**<br>Blood Smear , Whole Blood | Blood Film Malaria Parasite (BFMP) | Blood Films for Microscopy Parasite<br>(BFMP) method by using manual slide<br>smear procedure as documented in the<br>following:<br>i) A3QD006 - Processing of Malaria<br>Parasite Slide<br>ii) A3QT014 - Blood Film Malarial Parasite Smear Technique<br>iii) A3QT015 - Giemsa's Azur Eosin<br>Methylene Blue Solution Procedure<br>iv) A3QT016 - Malaria Parasite Density Count<br>v) A3QT017 - Positive Control Slides<br>of Malaria<br>vi) A3QT018 - Microscopy Examination of Thick and Thin Blood Films for Identification of Malaria Parasites |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
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| **Parasitology**<br>Blood Smear , Whole Blood | Blood Film Malaria Parasite (BFMP) | Blood Films for Microscopy Parasite<br>(BFMP) method by using manual slide<br>smear procedure as documented in the<br>following:<br>i) A3QD006 - Processing of Malaria<br>Parasite Slide<br>ii) A3QT014 - Blood Film Malarial Parasite Smear Technique<br>iii) A3QT015 - Giemsa's Azur Eosin<br>Methylene Blue Solution Procedure<br>iv) A3QT016 - Malaria Parasite Density Count<br>v) A3QT017 - Positive Control Slides<br>of Malaria<br>vi) A3QT018 - Microscopy Examination of Thick and Thin Blood Films for Identification of Malaria Parasites |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY - SEROLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
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|---|---|---|
| **Parasitology**<br>Blood Smear , Whole Blood | Blood Film Malaria Parasite (BFMP) | Blood Films for Microscopy Parasite<br>(BFMP) method by using manual slide<br>smear procedure as documented in the<br>following:<br>i) A3QD006 - Processing of Malaria<br>Parasite Slide<br>ii) A3QT014 - Blood Film Malarial Parasite Smear Technique<br>iii) A3QT015 - Giemsa's Azur Eosin<br>Methylene Blue Solution Procedure<br>iv) A3QT016 - Malaria Parasite Density Count<br>v) A3QT017 - Positive Control Slides<br>of Malaria<br>vi) A3QT018 - Microscopy Examination of Thick and Thin Blood Films for Identification of Malaria Parasites |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (IMMUNOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
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| **Parasitology**<br>Blood Smear , Whole Blood | Blood Film Malaria Parasite (BFMP) | Blood Films for Microscopy Parasite<br>(BFMP) method by using manual slide<br>smear procedure as documented in the<br>following:<br>i) A3QD006 - Processing of Malaria<br>Parasite Slide<br>ii) A3QT014 - Blood Film Malarial Parasite Smear Technique<br>iii) A3QT015 - Giemsa's Azur Eosin<br>Methylene Blue Solution Procedure<br>iv) A3QT016 - Malaria Parasite Density Count<br>v) A3QT017 - Positive Control Slides<br>of Malaria<br>vi) A3QT018 - Microscopy Examination of Thick and Thin Blood Films for Identification of Malaria Parasites |

**SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (PARASITOLOGY)**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
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| **Parasitology**<br>Blood Smear , Whole Blood | Blood Film Malaria Parasite (BFMP) | Blood Films for Microscopy Parasite<br>(BFMP) method by using manual slide<br>smear procedure as documented in the<br>following:<br>i) A3QD006 - Processing of Malaria<br>Parasite Slide<br>ii) A3QT014 - Blood Film Malarial Parasite Smear Technique<br>iii) A3QT015 - Giemsa's Azur Eosin<br>Methylene Blue Solution Procedure<br>iv) A3QT016 - Malaria Parasite Density Count<br>v) A3QT017 - Positive Control Slides<br>of Malaria<br>vi) A3QT018 - Microscopy Examination of Thick and Thin Blood Films for Identification of Malaria Parasites |

**SCOPE OF MEDICAL TESTING : CHEMICAL PATHOLOGY**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **General Chemistry**<br>Urine | Urine Full Examination, Microscopic Examination (UFEME) | Automated Photometry by using Cobas U 411 Urine Analyzer and Direct Microscopic Examination as documented in A10QD003 |
| | Urine Pregnancy Test (UPT) | Test Strip method by using Rapid Immunochromatography as documented in A10QD002 |
| **General Chemistry**<br>Serum | Triglyceride | GPO Enzymatic Colorimetric Assay by using Roche Cobas 6000 as documented in A2QD020 |
| | HDL Cholesterol | Homogeneous Enzymatic Colorimetric test by using Roche Cobas 6000 as documented in A2QD011 |
| | LDL cholesterol | Calculation as documented in A2QD013 |

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| | Cholesterol / HDL Cholesterol Ratio | Calculation as documented in A2QD013 |
| | Total Protein | Biuret Reaction by using Roche Cobas 6000 as documented in A2QD019 |
| | Albumin | Bromcresol Green (BCG) Colorimetric Assay by using Roche Cobas 6000 as documented in A2QD002 |
| | Globulin | Calculation as documented in A2QD013 |
| | Albumin / Globulin Ratio | Calculation as documented in A2QD013 |
| | Bilirubin | Colorimetric Diazo method Assay by using Roche Cobas 6000 as documented in A2QD018 |
| | Alanine Transaminase (SGPT/ALT) | Optimized IFCC method by using Roche Cobas 6000 as documented in A2QD016 |
| | Aspartate Transaminase (SGOT/AST) | Optimized IFCC method by using Roche Cobas 6000 as documented in A2QD015 |
| | Alkaline phosphatase (ALP) | Colorimetric Assay according to IFCC by using Roche Cobas 6000 as documented in A2QD003 |
| | Gamma GT | Enzymatic Colorimetric Assay by using Roche Cobas 6000 as documented in A2QD008 |
| Plasma | Glucose | Hexokinase Enzymatic Method by using Roche Cobas 6000 as documented in A2QD009 |
| Serum | TSH | Electrochemiluminescence Immunoassay (ECLIA) by using Roche Cobas 6000 as documented in A2QD021 |
| | Uric acid | Uricase Enzymatic Colorimetric Assay by using Roche Cobas 6000 as documented in A2QD023 |
| | Creatinine | Enzymatic Method by using Roche Cobas 6000 as documented in A2QD007 |
| | Urea | Urease with Glutamate Dehydrogenase (GLDH) Assay by using Roche Cobas 6000 as documented in A2QD022 |
| | Sodium | Ion Selective Electrode (ISE) by using Roche Cobas 6000 as documented in A2QD005 |

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| | Potassium | Ion Selective Electrode (ISE) by using Roche Cobas 6000 as documented in A2QD005 |
| | Chloride | Ion Selective Electrode (ISE) by using Roche Cobas 6000 as documented in A2QD005 |
| | Calcium | BAPTA Assay by using Roche Cobas 6000 as documented in A2QD004 |
| | Phosphate | Molybdate UV Assay by using Roche Cobas 6000 as documented in A2QD012 |
| | Cholesterol | Enzymatic Colorimetric Assay by using Roche Cobas 6000 as documented in A2QD006 |
| Whole Blood | HbA1c | Turbidimetric Inhibition Immunoassay (TINIA) by using Roche Cobas 6000 as documented in A2QD010 |

**SCOPE OF MEDICAL TESTING : HAEMATOLOGY**

| **Specimen Tested** | **Type of Test/ Properties Measured/** | **Test Methods,Specifications/ Equipment/Techniques Used** |
|---|---|---|
| **Routine Haematology** Whole Blood | Full Blood Count (FBC) | RF/DC detection by using flow cytometry method and SLShaemoglobin method by using Sysmex XN-1000 as documented in A3QD001 |
| | Erythrocyte Sedimentation Rate (ESR) | Westergren method by using MicroSed System as documented in A3QD004 |
| Blood Smear/whole Blood | Peripheral Blood Film (PBF) | Microscopy method by using manual slide smear procedure and Olympus Light Microscopes or Leica Light Microscopes as documented in A3QT002, A3QT008 and A3QD005 |
| **Specialised Haematology** Whole Blood | Haemoglobin Electrophoresis (Hbel) | Capillary electrophoresis method by using Sebia Capillary 2 Flex Piercing Test System as documented in A3QD002, A3QT003 and A3QT006 |

**NOTE :**

**Laboratory Clinical Personnel :**

**Issue date: 21 April 2025**
**Valid Until: -**

**NO: SAMM 880**



| No. | Name | Discipline |
|---|---|---|
| 1 | Abdul Rahim Yahaya | Technical Manager |
| 2 | Shameem Ferzana Mohd Yusof | Quality Manager |
| 3 | Nurul Najwa Abdul Mokti | Technical Manager |
| 4 | Norsyuhaini Sharin | Technical Manager |
| 5 | Nur Amalina Mohd Zaman | Technical Manager |
| 6 | Sarah Ailis Ahmad Rashdi | Technical Manager |
| 7 | Rabiatul Adawiyah Zulkipli | Document Controller |
| 8 | Nabila Ibrahim | Technical Manager |
| 9 | Prema Komarasamy | |
| 10 | Sreeambal Ramankutty | Technical Manager |
| 11 | Faiqah Hazrati Mohd Zanal | |
| 12 | Dr Muhammad Nazri Aziz | Laboratory Director |
| 13 | Badrul Hisham Abdullah | Deputy Laboratory Directory |