

# Accreditation Scope

**LLH Hospital L.L.C., NAM 018**  
**Medical Laboratory, (ISO 15189:2012)**

**Electra Street, Abu Dhabi, United Arab Emirates**

**Issue Date: 06-04-2021**

**Expiry Date: 05-04-2024**

**Issue No: 001**

| Medical Field     | Biological Sample | Components / Analytes       | Examination technique                 | Examination Procedure Reference  |
|-------------------|-------------------|-----------------------------|---------------------------------------|----------------------------------|
| Routine Chemistry | SERUM             | ALANINE AMINO TRANSFERASE   | Enzymatic - colorimetric, IFCC, 37°C  | LLH-LAB-BIO-INT-004 VER 4.0      |
| Routine Chemistry | SERUM             | ALBUMIN                     | Dye Binding BCG - colorimetric,       | LLH-LAB-BIO-INT-SOP-002 VER 4.0  |
| Routine Chemistry | SERUM             | ALKALINE PHOSPHATASE        | Enzymatic - colorimetric, IFCC, 37°C  | LLH-LAB-BIO-INT-SOP-003 VER 4.0  |
| Routine Chemistry | SERUM             | AMYLASE                     | Enzymatic - IFCC, 37°C                | LLH-LAB-BIO-INT-SOP-005 VER 4.0  |
| Routine Chemistry | SERUM             | ASO QUANTITATIVE            | Immunoturbidimetric assay             | LLH-LAB-BIO-INT-SOP-006 VER 4.0  |
| Routine Chemistry | SERUM             | ASPARTATE AMINO TRANSFERASE | Enzymatic - colorimetric, IFCC, 37°C  | LLH-LAB-BIO-INT-SOP-007 VER 4.0  |
| Routine Chemistry | SERUM             | BICARBONATE, CO2            | Ion selective electrodes - Calculated | LLH-LAB-BIO-B121-SOP-001 VER 4.0 |
| Routine Chemistry | SERUM             | BILIRUBIN, DIRECT           | Diazo salt w/Blank - colorimetric,    | LLH-LAB-BIO-INT-SOP-008 VER 4.0  |
| Routine Chemistry | SERUM             | BILIRUBIN, DIRECT-NEONATAL  | Diazo salt w/Blank - colorimetric,    | LLH-LAB-BIO-INT-SOP-008 VER 4.0  |
| Routine Chemistry | SERUM             | BILIRUBIN, TOTAL            | Diazo salt w/Blank - colorimetric,    | LLH-LAB-BIO-INT-SOP-008 VER 4.0  |

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| Routine Chemistry | SERUM             | BILIRUBIN,<br>TOTAL-<br>NEONATAL | Diazo salt w/Blank -<br>colorimetric,                                       | LLH-LAB-BIO-INT-SOP-008<br>VER 4.0   |
| Routine Chemistry | SERUM             | CALCIUM,<br>IONIZED              | Ion Selective<br>Electrode - direct   | LLH-LAB-BIO-B121-SOP-<br>001 VER 4.0 |
| Routine Chemistry | SERUM             | CALCIUM,<br>TOTAL                | NM-BAPTA -<br>colorimetric,   | LLH-LAB-BIO-INT-SOP-010<br>VER 4.0   |
| Routine Chemistry | URINE             | CALCIUM,<br>TOTAL                | NM-BAPTA -<br>colorimetric,   | LLH-LAB-BIO-INT-SOP-010<br>VER 4.0   |
| Routine Chemistry | SERUM             | CHLORIDE                         | Ion Selective<br>Electrode  | LLH-LAB-BIO-B121-SOP-<br>004 VER 4.0 |
| Routine Chemistry | SERUM             | CHOLESTEROL<br>TOTAL             | Enzymatic - COD-<br>POD   | LLH-LAB-BIO-INT-SOP-011<br>VER 4.0   |
| Routine Chemistry | SERUM             | CHOLESTEROL,<br>LDL              | Homogeneous<br>enzymatic<br>colorimetric assay                              | LLH-LAB-BIO-INT-SOP-021<br>VER 4.0   |
| Routine Chemistry | SERUM             | CHOLESTEROL,<br>HDL              | Homogeneous<br>enzymatic<br>colorimetric<br>test, Enzymatic -<br>IFCC, 37°C | LLH-LAB-BIO-INT-SOP-018<br>VER 4.0   |
| Routine Chemistry | SERUM             | CREATININE                       | Kinetic Jaffé<br>reaction, rete-blank,<br>compensated                       | LLH-LAB-BIO-INT-SOP-013<br>VER 4.0   |

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| Routine Chemistry | URINE             | CREATININE                   | Kinetic Jaffé reaction<br>picric acid in alkaline<br>pH  | LLH-LAB-BIO-INT-SOP-013<br>VER 4.0 |
| Routine Chemistry | SERUM             | CREATINE<br>PHOSPHOKINASE    | Enzymatic -<br>Colorimetric IFCC,<br>37°C                | LLH-LAB-BIO-INT-SOP-012<br>VER 4.0 |
| Routine Chemistry | SERUM             | CRP<br>QUANTITATIVE          | Immunoturbidimetric<br>assay                             | LLH-LAB-BIO-INT-SOP-014<br>VER 4.0 |
| Routine Chemistry | SERUM             | CRP-HS<br>QUANTITATIVE       | Immunoturbidimetric<br>assay                             | LLH-LAB-BIO-INT-SOP-036<br>VER 4.0 |
| Routine Chemistry | PLASMA            | D-DIMER<br>QUANTITATIVE      | Immunoturbidimetric<br>assay                             | LLH-LAB-BIO-INT-SOP-033<br>4.0     |
| Routine Chemistry | SERUM             | GGT                          | Enzymatic - IFCC /<br>SZASZ                              | LLH-LAB-BIO-INT-SOP-015<br>VER 4.0 |
| Routine Chemistry | BODY<br>FLUID     | GLUCOSE                      | Hexokinase, UV   | LLH-LAB-BIO-INT-SOP-016<br>VER 4.0 |
| Routine Chemistry | CSF               | GLUCOSE                      | Hexokinase, UV   | LLH-LAB-BIO-INT-SOP-016<br>VER 4.0 |
| Routine Chemistry | SERUM             | GLUCOSE                      | Hexokinase, UV   | LLH-LAB-BIO-INT-SOP-016<br>VER 4.0 |
| Routine Chemistry | WHOLE<br>BLOOD    | HEMOGLOBIN<br>A1C            | Turbidometric<br>Inhibition<br>immunoassay (TINIA)       | LLH-LAB-BIO-INT-SOP-017<br>VER 4.0 |
| Routine Chemistry | SERUM             | IRON BINDING,<br>UNSATURATED | Direct determination<br>with FerroZine -<br>Colorimetric | LLH-LAB-BIO-INT-SOP-035<br>VER 4.0 |

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|-------------------|-------------------|-----------------------|---|----------------------------------|
| Routine Chemistry | SERUM             | IRON                  | Ferrochrome-Colorimetric assay              | LLH-LAB-BIO-INT-SOP-019 VER 4.0  |
| Routine Chemistry | BODY FLUID        | LACTATE DEHYDROGENASE | Enzymatic - UV, IFCC, 37°C                  | LLH-LAB-BIO-INT-SOP-020 VER 4.0  |
| Routine Chemistry | CSF               | LACTATE DEHYDROGENASE | Enzymatic - UV, IFCC, 37°C                  | LLH-LAB-BIO-INT-SOP-020 VER 4.0  |
| Routine Chemistry | SERUM             | LACTATE DEHYDROGENASE | Enzymatic - UV, IFCC, 37°C                  | LLH-LAB-BIO-INT-SOP-020 VER 4.0  |
| Routine Chemistry | SERUM             | LIPASE                | Enzymatic colorimetric assay                | LLH-LAB-BIO-INT-SOP-034 VER 4.0  |
| Routine Chemistry | SERUM             | MAGNESIUM             | Xylidyl blue - Colorimetric                 | LLH-LAB-BIO-INT-SOP-022 VER 4.0  |
| Routine Chemistry | URINE             | MICROALBUMIN          | Immunoturbidimetric assay                   | LLH-LAB-BIO-INT-SOP-023 VER 4.0  |
| Routine Chemistry | URINE             | PHOSPHORUS            | Phosphomolybdate UV                         | LLH-LAB-BIO-INT-SOP-024 VER 4.0  |
| Routine Chemistry | SERUM             | PHOSPHORUS            | Phosphomolybdate UV                         | LLH-LAB-BIO-INT-SOP-024 VER 4.0  |
| Routine Chemistry | SERUM             | POTASSIUM             | Ion Selective electrodes - Indirect         | LLH-LAB-BIO-B121-SOP-003 VER 4.0 |
| Routine Chemistry | CSF               | PROTEIN-TOTAL         | Immunoturbidimetric , Benzethonium chloride | LLH-LAB-BIO-INT-SOP-027 VER 4.0  |

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|-------------------|-------------------|------------------------|---|----------------------------------|
| Routine Chemistry | SERUM             | PROTEIN – TOTAL        | Biuret - Colorimetric                       | LLH-LAB-BIO-INT-SOP-026 VER 4.0  |
| Routine Chemistry | URINE             | PROTEIN - TOTAL        | Immunoturbidimetric , Benzethonium chloride | LLH-LAB-BIO-INT-SOP-027 VER 4.0  |
| Routine Chemistry | SERUM             | RF QUANTITATIVE        | Immunoturbidimetric assay                   | LLH-LAB-BIO-INT-SOP-025 VER 4.0  |
| Routine Chemistry | SERUM             | SODIUM                 | Ion Selective electrodes - Indirect         | LLH-LAB-BIO-B121-SOP-002 VER 4.0 |
| Routine Chemistry | SERUM             | TRIGLYCERIDE           | Enzymatic colorimetric test                 | LLH-LAB-BIO-INT-SOP-028 VER 4.0  |
| Routine Chemistry | SERUM             | UREA                   | Urease - Colorimetric                       | LLH-LAB-BIO-INT-SOP-029 VER 4.0  |
| Routine Chemistry | SERUM             | URIC ACID              | Uricase - Colorimetric                      | LLH-LAB-BIO-INT-SOP-030 VER 4.0  |
| Routine Chemistry | URINE             | URIC ACID              | Uricase - Colorimetric                      | LLH-LAB-BIO-INT-SOP-030 VER 4.0  |
| Urinalysis        | Urine             | Bilirubin, qualitative | Reflectance photometry                      | LLH-LAB-CLM-CBS-SOP-001 VER 4.0  |
| Urinalysis        | Urine             | Blood/Hemoglobin       | Reflectance photometry                      | LLH-LAB-CLM-CBS-SOP-001 VER 4.0  |
| Urinalysis        | Urine             | Glucose, qualitative   | Reflectance photometry                      | LLH-LAB-CLM-CBS-SOP-001 VER 4.0  |
| Urinalysis        | Urine             | Ketones, qualitative   | Reflectance photometry                      | LLH-LAB-CLM-CBS-SOP-001 VER 4.0  |

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|---------------|-------------------|---------------------------------|-------------------------|---------------------------------|
| Urinalysis    | Urine             | Leukocyte esterase, qualitative | Reflectance photometry  | LLH-LAB-CLM-CBS-SOP-001 VER 4.0 |
| Urinalysis    | Urine             | Nitrite, qualitative            | Reflectance photometry  | LLH-LAB-CLM-CBS-SOP-001 VER 4.0 |
| Urinalysis    | Urine             | pH                              | Reflectance photometry  | LLH-LAB-CLM-CBS-SOP-001 VER 4.0 |
| Urinalysis    | Urine             | Protein, qualitative            | Reflectance photometry  | LLH-LAB-CLM-CBS-SOP-001 VER 4.0 |
| Urinalysis    | Urine             | Specific gravity                | Refractometry           | LLH-LAB-CLM-CBS-SOP-001 VER 4.0 |
| Urinalysis    | Urine             | Urobilinogen, qualitative       | Reflectance photometry  | LLH-LAB-CLM-CBS-SOP-001 VER 4.0 |
| Urinalysis    | Urine             | Urine Sediment Examination      | Automated Microscopy    | LLH-LAB-CLM-CBS-SOP-001 VER 4.0 |
| Urinalysis    | Urine             | Urine Color                     | Reflectance Photometry  | LLH-LAB-CLM-CBS-SOP-001 VER 4.0 |
| Urinalysis    | Urine             | Urine Clarity                   | Roche Cobas 6500        | LLH-LAB-CLM-CBS-SOP-001 VER 4.0 |
| IMMUNOLOGY    | Serum             | HCG + Beta QUANTITATIVE         | Chemiluminascence - MIA | LLH-LAB-IMN-ARC-SOP-017 VER 4.0 |
| IMMUNOLOGY    | Serum             | TROPONIN I, HS QUANTITATIVE     | Chemiluminascence - MIA | LLH-LAB-IMN-ARC-SOP-011 VER 4.0 |
| IMMUNOLOGY    | Serum             | CREATININE KINASE-CK-MB         | Chemiluminascence - MIA | LLH-LAB-IMN-ARC-SOP-004 VER 4.0 |

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|---------------|-------------------|---|---------------------------|----------------------------------|
| IMMUNOLOGY    | Serum             | ANTI-HBS                                | Chemiluminascence - MIA   | LLH-LAB-IMN-ARC-SOP-002 VER 4.0  |
| IMMUNOLOGY    | Serum             | ANTI-HAV-IGM                            | Chemiluminascence - MIA   | LLH-LAB-IMN-ARC-SOP-016 VER 4.0  |
| IMMUNOLOGY    | Serum             | ANTI-HCV                                | Chemiluminascence - MIA   | LLH-LAB-IMN-ARC-SOP-003 VER 4.0  |
| IMMUNOLOGY    | Plasma            | BNP                                     | Chemiluminascence-MIA     | LLH-LAB-IMN-ARC-SOP-018 VER 4.0  |
| IMMUNOLOGY    | Serum             | HBSAG                                   | Chemiluminascence - MIA   | LLH-LAB-IMN-ARC-SOP-005 VER 4.0  |
| IMMUNOLOGY    | Serum             | HIV COMBI -1 & 2 Antibodies and Antigen | Chemiluminascence - MIA   | LLH-LAB-IMN-ARC-SOP-006 VER 4.0  |
| IMMUNOLOGY    | Serum             | FERRITIN                                | Chemiluminascence - ECLIA | LLH-LAB-IMN-E411-SOP-027 VER 4.0 |
| IMMUNOLOGY    | Serum             | VITAMIN D (TOTAL)                       | Chemiluminascence - ECLIA | LLH-LAB-IMN-E411-SOP-024 VER 4.0 |
| IMMUNOLOGY    | Serum             | VITAMIN B12                             | Chemiluminascence - ECLIA | LLH-LAB-IMN-E411-SOP-023 VER 4.0 |
| ENDOCRINOLOGY | Serum             | THYROXINE (FREE T4)                     | Chemiluminascence - ECLIA | LLH-LAB-IMN-E411-SOP-014 VER 4.0 |
| ENDOCRINOLOGY | Serum             | T3, FREE                                | Chemiluminascence - ECLIA | LLH-LAB-IMN-E411-SOP-013 VER 4.0 |
| ENDOCRINOLOGY | Serum             | THYROID STIMULATIONG                    | Chemiluminascence - ECLIA | LLH-LAB-IMN-E411-SOP-022 VER 4.0 |

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|-------------------|-------------------|--|---|------------------------------------|
|                   |                   | HORMONE (TSH)                                  |   |                                    |
| SYPHILIS SEROLOGY | Serum             | Rapid Plasma Reagin (RPR)                      | Nontreponemal Flocculation              | LLH-LAB-SER-SER-SOP-004 VER 4.0    |
| SYPHILIS SEROLOGY | Serum             | Treponema Pallidum Haemagglutination (TPHA)    | Indirect Hemagglutination Assay         | LLH-LAB-SER-SER-SOP-003 VER 4.0    |
| Hematology        | Citrated Plasma   | PROTHROMBIN TIME and INR                       | Optical Detection Method                | LLH-LAB-HEM-ACL-SOP-002 VER 3.1    |
| Hematology        | Citrated Plasma   | APTT   | Optical Detection Method                | LLH-LAB-HEM-ACL-SOP-001 VER 4.0    |
| Hematology        | Whole Blood       | Blood Differential Count                       | Polychromatophilic Staining Microscopy  | LLH-LAB-HEM-SYS-SOP-001 VER 3.1    |
| Hematology        | Whole Blood       | BLOOD FILM                                     | Polychromatophilic Staining Microscopy  | LLH-LAB-HEM-MAN-SOP-005 VER 4.0    |
| Hematology        | Whole Blood       | BLOOD FILM FOR HEMOPARASITES (MALARIA/FILARIA) | Polychromatophilic Staining Microscopy  | LLH-LAB-HEM-MAN-SOP-004 VER 4.0    |
| Hematology        | Body Fluid        | Body Fluid Cell Count Manual                   | Improved Neubauer Ruling, Hemocytometer | LLH-LAB-CLM-MAN-SOP-001 - LLH-LAB- |



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|---------------|-------------------|--|----------------------------|---|
|               |                   |  |                            | CLM-MAN-SOP-005 VER 4.0                                   |
| Hematology    | Body Fluid        | Body Fluid Cell Differential and cell Identification | Microscopy                 | LLH-LAB-CLM-MAN-SOP-001 - LLH-LAB-CLM-MAN-SOP-005 VER 4.0 |
| Hematology    | Whole Blood       | WHITE BLOOD CELL COUNT                               | FLOURESCENT FLOW CYTOMETRY | LLH-LAB-HEM-SYS-SOP-001 VER 3.1                           |
| Hematology    | Whole Blood       | RED BLOOD CELL COUNT                                 | DC SHEATH FLOW             | LLH-LAB-HEM-SYS-SOP-001 VER 3.1                           |
| Hematology    | Whole Blood       | PLATELET COUNT                                       | DC SHEATH FLOW             | LLH-LAB-HEM-SYS-SOP-001 VER 3.1                           |
| Hematology    | Whole Blood       | HCT  | CALCULATED                 | LLH-LAB-HEM-SYS-SOP-001 VER 3.1                           |
| Hematology    | Whole Blood       | HEMOGLOBIN   | SLS METHOD                 | LLH-LAB-HEM-SYS-SOP-001 VER 3.1                           |
| Hematology    | Whole Blood       | MCV  | CALCULATED                 | LLH-LAB-HEM-SYS-SOP-001 VER 3.1                           |
| Hematology    | Whole Blood       | MCH  | CALCULATED                 | LLH-LAB-HEM-SYS-SOP-001 VER 3.1                           |
| Hematology    | Whole Blood       | MCHC   | CALCULATED                 | LLH-LAB-HEM-SYS-SOP-001 VER 3.1                           |
| Hematology    | Whole Blood       | RDW-CV   | CALCULATED                 | LLH-LAB-HEM-SYS-SOP-001 VER 3.1                           |
| Hematology    | Whole Blood       | RDW- SD  | CALCULATED                 | LLH-LAB-HEM-SYS-SOP-001 VER 3.1                           |

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|---------------|-------------------|---------------------------------|------------------------------------|---------------------------------|
| Hematology    | Whole Blood       | RETICULOCYTE COUNT - AUTOMATED  | FLOURESCENT FLOW CYTOMETRY         | LLH-LAB-HEM-SYS-SOP-001 VER 3.1 |
| Hematology    | Whole Blood       | NEUTROPHIL                      | FLOURESCENT FLOW CYTOMETRY         | LLH-LAB-HEM-SYS-SOP-001 VER 3.1 |
| Hematology    | Whole Blood       | LYMPHOCYTE                      | FLOURESCENT FLOW CYTOMETRY         | LLH-LAB-HEM-SYS-SOP-001 VER 3.1 |
| Hematology    | Whole Blood       | MONOCYTE                        | FLOURESCENT FLOW CYTOMETRY         | LLH-LAB-HEM-SYS-SOP-001 VER 3.1 |
| Hematology    | Whole Blood       | EOSINOPHIL                      | FLOURESCENT FLOW CYTOMETRY         | LLH-LAB-HEM-SYS-SOP-001 VER 3.1 |
| Hematology    | Whole Blood       | BASOPHIL                        | FLOURESCENT FLOW CYTOMETRY         | LLH-LAB-HEM-SYS-SOP-001 VER 3.1 |
| Hematology    | Whole Blood       | ESR - MANUAL                    | SEDIMENTATION - WESTERGRENS METHOD | LLH-LAB-HEM-MAN-SOP-001 VER 4.0 |
| Hematology    | Whole Blood       | Absolute Eosinophil Count (AEC) | FLOURESCENT FLOW CYTOMETRY         | LLH-LAB-HEM-SYS-SOP-001 VER 3.1 |
| Hematology    | Whole Blood       | G6PD Qualitative                | Dichlorophenol Indophenol          | LLH-LAB-HEM-MAN-SOP-002 VER 4.0 |
| Hematology    | Whole Blood       | MALARIA ANTIGEN - RAPID         | Immuno Chromatography              | LLH-LAB-HEM-MAN-SOP-003 VER 4.0 |
| Hematology    | Whole Blood       | SICKLE CELL SCREEN              | Solubility in Sodium dithionite    | LLH-LAB-HEM-MAN-SOP-006 VER 4.0 |

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|--------------------|---------------------------|-----------------------------------|-----------------------------|---------------------------------|
| Immunohematology   | Whole Blood<br>EDTA,Serum | ABO GROUPING                      | Gel Agglutination Technique | LLH-LAB-BBK-DMD-SOP-004 VER 4.0 |
| Immunohematology   | Whole Blood<br>EDTA,Serum | Rh Typing                         | Gel Agglutination Technique | LLH-LAB-BBK-DMD-SOP-004 VER 4.0 |
| Immunohematology   | Whole Blood<br>EDTA       | Direct Antiglobulin testing (DAT) | Gel Agglutination Technique | LLH-LAB-BBK-DMD-SOP-003 VER 4.0 |
| Immunohematology   | Serum                     | Antibody Screen                   | Gel Agglutination Technique | LLH-LAB-BBK-DMD-SOP-001 VER 4.0 |
| Immunohematology   | Serum                     | Compatibility testing             | Gel Agglutination Technique | LLH-LAB-BBK-DMD-SOP-002 VER 4.0 |
| Immunohematology   | Whole Blood               | Donor Unit Retyping               | Gel Agglutination Technique | LLH-LAB-BBK-DMD-SOP-002 VER 4.0 |
| Clinical Microcopy | Nasal Swab                | RSV                               | Immuno Chromatography       | LLH/LAB/SER/OTH/SOP/004 VER 4.0 |
| Clinical Microcopy | Nasal Swab                | Influenza A & B                   | Immuno Chromatography       | LLH/LAB/SER/OTH/SOP/003 VER 4.0 |
| Clinical Microcopy | Nasal Swab                | Strep A                           | Immuno Chromatography       | LLH/LAB/SER/OTH/SOP/002 VER 4.0 |
| Clinical Microcopy | Stool                     | Stool routine                     | Microscopy                  | LLH/LAB/CLM/MAN/SOP/007 VER 4.0 |

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|--------------------|-------------------|----------------------------|--|---------------------------------|
| Others             | Breath Sample     | UBT                        | Isotope Ratio Mass Spectrometry, Wagner IRIS C13 | LLH/LAB/SER/SER/SOP/006 VER 4.0 |
| Serology           | Serum             | WIDAL                      | Agglutination                                    | LLH/LAB/SER/SER/SOP/005 VER 4.0 |
| Serology           | Swab, Urine       | CHLAMYDIA ANTIGEN          | Immuno Chromatography                            | LLH-LAB-SER-OTH-SOP-001 VER 4.0 |
| Serology           | Serum             | H.PYLORI ANTIBODIES, TOTAL | Immuno Chromatography                            | LLH-LAB-SER-SER-SOP-002 VER 4.0 |
| Serology           | Serum             | Mycoplasma IgG, IgM        | Immuno Chromatography                            | LLH-LAB-SER-SER-SOP-007 VER 4.0 |
| Clinical Microcopy | Stool             | Calprotectin Detection     | Immuno Chromatography                            | LLH-LAB-SER-FEC-SOP-004 VER 4.0 |
| Clinical Microcopy | Stool             | Fecal Occult Blood         | Immuno Chromatography                            | LLH-LAB-SER-FEC-SOP-001 VER 4.0 |
| Clinical Microcopy | Stool             | Rota Virus                 | Immuno Chromatography                            | LLH-LAB-SER-FEC-SOP-003 VER 4.0 |
| Clinical Microcopy | Stool             | H. Pylori Antigen          | Immuno Chromatography                            | LLH-LAB-SER-FEC-SOP-002 VER 4.0 |
| <b>END</b>         |                   |                            |  |                                 |