



CERTIFICATE OF ACCREDITATION

This is to attest that

MEDICA MONGOLIA LLC

(Laboratory name: SOS Medica Mongolia UB International Clinic)
4A BUILDING, BIG RING ROAD, 15TH MICRO DISTRICT
7TH KHOROO, BAYANZURKH DISTRICT
ULAANBAATAR, 13345
MONGOLIA

Medical Laboratory ML-104

has met the requirements of AC780, *IAS Accreditation Criteria for Medical Laboratories*, and has demonstrated compliance with ISO Standard 15189:2012, *Medical laboratories - Requirements for quality and competence*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date January 25, 2024



A handwritten signature in black ink, reading 'Raj Nathan'.

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

MEDICA MONGOLIA LLC

<http://sosmedica.mn/en>

Contact Name Dr. Davaatseren Baatar
dr.davaatseren@sosmedica.mn

Contact Phone +976-11-464325

Accredited to ISO/IEC 15189:2012

Effective Date January 25, 2024

Materials/Product Tested/ Sample Type	Specific Examination/Property Measured (Determinant)	Test Method/Procedure/ Technique/Equipment
Discipline: Hematology		
Whole Blood	White blood cells- <i>WBC</i>	Fluorescence flow cytometry technology/Sysmex XNL-550
Whole Blood	Red blood cells- <i>RBC</i>	Hydro Dynamic focusing/Sysmex XNL-550
Whole Blood	Hemoglobin - <i>HGB</i>	SLS hemoglobin methodology/Sysmex XNL-550
Whole Blood	Hematocrit- <i>HCT</i>	Derived/ Sysmex XNL-550
Whole Blood	Mean corpuscular volume- <i>MCV</i>	Derived/ Sysmex XNL-550
Whole Blood	Mean corpuscular hemoglobin- <i>MCH</i>	Derived/ Sysmex XNL-550
Whole Blood	Mean corpuscular hemoglobin concentration- <i>MCHC</i>	Derived/ Sysmex XNL-550
Whole Blood	Platelet Count- <i>PLT</i>	Hydro Dynamic focusing/Sysmex XNL-550
Whole Blood	Red cell distribution width - <i>RDW-SD</i>	Hydro Dynamic focusing/Sysmex XNL-550
Whole Blood	Red blood cell distribution width- <i>RDW-CV</i>	Hydro Dynamic focusing/ Sysmex XNL-550
Whole Blood	Platelet distribution width- <i>PDW</i>	Hydro Dynamic focusing/Sysmex XNL-550

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Whole Blood	Mean platelet volume- <i>MPV</i>	Hydro Dynamic focusing/Sysmex XNL-550
Whole Blood	Volume occupied by platelets- <i>PCT</i>	Hydro Dynamic focusing/Sysmex XNL-550
Whole Blood	Platelet-large cell ratio- <i>P-LCR</i>	Hydro Dynamic focusing/Sysmex XNL-550
Whole Blood	Neutrophils count - <i>Neutrophilia#</i>	Fluorescence flow cytometry technology/Sysmex XNL-550
Whole Blood	Lymphocytes count - <i>Lymphocyte#</i>	Fluorescence flow cytometry technology/Sysmex XNL-550
Whole Blood	Monocytes count - <i>Monocyte#</i>	Fluorescence flow cytometry technology/Sysmex XNL-550
Whole Blood	Eosinophils count - <i>Eosinophi#</i>	Fluorescence flow cytometry technology/Sysmex XNL-550
Whole Blood	Basophil count - <i>Basophi#</i>	Fluorescence flow cytometry technology/Sysmex XNL-550
Whole Blood	Neutrophils percentage - <i>Neutrophil%</i>	Fluorescence flow cytometry technology/Sysmex XNL-550
Whole Blood	Monocytes percentage - <i>Monocyte%</i>	Fluorescence flow cytometry technology/Sysmex XNL-550
Whole Blood	Eosinophils percentage - <i>Lymphocyte%</i>	Fluorescence flow cytometry technology/Sysmex XNL-550
Whole Blood	Basophil percentage - <i>Basophi%</i>	Fluorescence flow cytometry technology/Sysmex XNL-550
Whole Blood	Erythrocyte sedimentation rate	Westergren method
Whole Blood	ABO and Rhesus factor	Agglutination method (Forward grouping)

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Discipline: Urine microscopy		
Urine	Red Blood Cells (RBC)	Optical system / AOS/ Urised Mini
Urine	White Blood Cells (WBC)	Optical system / AOS/ Urised Mini
Urine	WBC Clumps (WBCc)	Optical system / AOS/ Urised Mini
Urine	Hyaline Casts (HYA)	Optical system / AOS/ Urised Mini
Urine	Pathological Casts (PAT)	Optical system / AOS/ Urised Mini
Urine	Squamous Epithelial Cells (EPI)	Optical system / AOS/ Urised Mini
Urine	Non-squamous Epithelial Cells, (NEC)	Optical system / AOS/ Urised Mini
Urine	Bacteria (BAC)	Optical system / AOS/ Urised Mini
Urine	Yeast (YEA)	Optical system / AOS/ Urised Mini
Urine	Crystals (CRY)	Optical system / AOS/ Urised Mini
Urine	Calcium oxalate monohydrate (CaOxm)	Optical system / AOS/ Urised Mini
Urine	Calcium oxalate dihydrate (CaOxd)	Optical system / AOS/ Urised Mini
Urine	Uric acid (URI)	Optical system / AOS/ Urised Mini
Urine	Triple phosphate (TRI)	Optical system / AOS/ Urised Mini
Urine	Mucus (MUC)	Optical system / AOS/ Urised Mini
Urine	Sperm (SPRM)	Optical system / AOS/ Urised Mini
Urine	Schistosoma	Optical system / AOS/ Urised Mini
Urine	Lipid	Optical system / AOS/ Urised Mini

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Discipline: Clinical Chemistry		
Urine	Glucose	Enzyme method (GOD, POD) / UC-1000, Sysmex
Urine	Bilirubin/ Urobilinogen	Azo coupling / UC-1000, Sysmex
Urine	Ketones	Nitroprusside / UC-1000, Sysmex
Urine	SP gravity	Metachromatic / UC-1000, Sysmex
Urine	Blood cell	Peroxidase-like reaction of the hemoglobin / UC-1000, Sysmex
Urine	Leukocytes	Measurement of Leukocyte esterase activity/ UC-1000, Sysmex
Urine	PH	pH indicator / UC-1000, Sysmex
Urine	Protein	Protein error of pH indicator / UC-1000, Sysmex
Urine	Nitrites	Griess / UC-1000, Sysmex
Urine	Creatinine	Benedict-Behre / UC-1000, Sysmex
Urine	Albumin	Protein error of pH indicator / UC-1000, Sysmex
Discipline: Biochemistry		
Serum	Cholesterol	CHOD-PAP Enzymatic photometric / Sysmex BX3010
Serum	Triglycerides	Colorimetry / Sysmex BX3010
Serum	Low-density lipoprotein	Enzymatic reaction / Sysmex BX3010
Serum	Creatinine	Enzymatic colorimetric / Sysmex BX3010
Serum	Blood urea nitrogen	Photometric with phosphonazo / Sysmex BX3010
Serum	Iron	Photometric test using Ferene / Sysmex BX3010

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Serum	Calcium	Photometric phosphonazo III / Sysmex BX3010
Serum	Phosphorus	Photometric UV test with endpoint determination / Sysmex BX3010
Serum	Magnesium	Photometric test using xylydyl blue / Sysmex BX3010
Serum	Alkaline phosphatase (ALP)	Kinetic photometric test / Sysmex BX3010
Serum	Alanine transferase (ALT)	Optimized UV-test according to IFCC / Sysmex BX3010
Serum	Aspartate Aminotransferase (AST)	Optimized UV-test according to IFCC / Sysmex BX3010
Serum	Gamma-Glutamyl transferase (gamma-GT) (GGT)	Optimized UV-test according to IFCC / Sysmex BX3010
Serum	Glucose	Colorimetry/ Glucose hexokinase / Sysmex BX3010
Serum	Hemoglobin A1C HbA1c	Enzymatic / Sysmex BX3010
Serum	C-Reactive Protein (CRP)	Immunoturbidimetric test / Sysmex BX3010
Discipline: Biochemistry		
Serum	Alanine transferase (ALT)	Dry chemistry / Arkray Spotchem 4430
Serum	Aspartate Aminotransferase (ASAT)	Dry chemistry / Arkray Spotchem 4430
Serum	Gamma-glutamyl transferase (GGT)	Dry chemistry / Arkray Spotchem 4430
Serum	Uric Acid (UA)	Dry chemistry / Arkray Spotchem 4430
Serum	<i>Blood urea nitrogen (BUN)</i>	Dry chemistry / Arkray Spotchem 4430
Serum	Creatinine (CRE)	Dry chemistry / Arkray Spotchem 4430
Serum	Glucose (GLU)	Dry chemistry / Arkray Spotchem 4430

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Serum	Triglyceride (TG)	Dry chemistry / Arkray Spotchem 4430
Serum	Cholesterol (CHO)	Dry chemistry / Arkray Spotchem 4430
Serum	High-density lipoprotein (HDL)	Dry chemistry / Arkray Spotchem 4430
Serum	Amylase (AMY)	Dry chemistry / Arkray Spotchem 4430
Serum	Total bilirubin (TBIL)	Dry chemistry / Arkray Spotchem 4430
Serum	Total protein (TP)	Dry chemistry / Arkray Spotchem 4430
Serum	Albumin (ALB)	Dry chemistry / Arkray Spotchem 4430
Serum	LDH	Dry chemistry / Arkray Spotchem 4430
Discipline: Electrolyte		
Serum	Sodium, Potassium, Chloride	Potentiometry, by ion-selective electrodes / Arkray Spotchem-1520
Discipline: Immunology		
Serum	Creatine kinase-MB	Enzyme Linked Fluorescent Assay (ELFA) / Biomerieux Vidas_PC
Serum	Troponin I	Enzyme Linked Fluorescent Assay (ELFA) / Biomerieux Vidas_PC
Serum	Myoglobin	Enzyme Linked Fluorescent Assay (ELFA) / Biomerieux Vidas_PC
Serum	Vitamin D3	Enzyme Linked Fluorescent Assay (ELFA) / Biomerieux Vidas_PC
Serum	Thyroxine T4	Enzyme Linked Fluorescent Assay (ELFA) / Biomerieux Vidas_PC

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Serum	Triiodothyronine T3	Enzyme Linked Fluorescent Assay (ELFA) / Biomerieux Vidas_PC
Serum	Thyroid-stimulating hormone (TSH)	Enzyme Linked Fluorescent Assay (ELFA) / Biomerieux Vidas_PC
Serum	Free triiodothyronine (FT3N)	Enzyme Linked Fluorescent Assay (ELFA) / Biomerieux Vidas_PC
Serum	Free Thyroxine (FT4N)	Enzyme Linked Fluorescent Assay (ELFA) / Biomerieux Vidas_PC
Serum	Antithyroglobulin (ATG)	Enzyme Linked Fluorescent Assay (ELFA) / Biomerieux Vidas_PC
Serum	Anti-thyroid peroxidase (anti-TPO)	Enzyme Linked Fluorescent Assay (ELFA) / Biomerieux Vidas_PC
Serum	Prostate-specific antigen (PSA)	Enzyme Linked Fluorescent Assay (ELFA) / Biomerieux Vidas_PC
Serum	Antibody to hepatitis B surface antigen (HBsAb)	Enzyme Linked Fluorescent Assay (ELFA) / Biomerieux Vidas_PC
Serum	Hepatitis B surface antigen (HBsAg)	Enzyme Linked Fluorescent Assay (ELFA) / Biomerieux Vidas_PC
Serum	Antibodies to the hepatitis C virus (HCVab)	Enzyme Linked Fluorescent Assay (ELFA) / Biomerieux Vidas_PC
Whole Blood	D-Dimer exclusion (DEX)	Enzyme Linked Fluorescent Assay (ELFA) / Biomerieux Vidas_PC
Serum	HIV DUO anti-HIV-1 and anti-HIV -2	Enzyme Linked Fluorescent Assay (ELFA) / Biomerieux Vidas_PC
Serum	IGRA- Interferon gamma release assay	Enzyme-linked immunosorbent assay (ELISA) / Alere microplate reader

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Materials/Product Tested/ Sample type	Specific Examination/Property Measured (Determinant)	Test Method/Procedure/ Technique/Equipment
Discipline: Rapid tests		
Serum	HIV 1/2 ab	Lateral flow chromatography
Serum	Hepatitis B surface antigen (HBsAg)	Lateral flow chromatography
Serum	Antibodies to the hepatitis C virus	Lateral flow chromatography
Serum	H. pylori Ab	Lateral flow chromatography
Serum	Syphilis antibody detection	Lateral flow chromatography
Nasopharyngeal Swab	Influenza antigen test	Lateral flow chromatography
Nasopharyngeal Swab	Covid-19 Ag test	Lateral flow chromatography
Urine	Drug screen test	Lateral flow chromatography
Oropharyngeal swab	Streptococcus A	Lateral flow chromatography
Stool	Adeno/Rota virus	Lateral flow chromatography
Stool	Norovirus	Immunochromatography
Stool	Fecal occult blood	Immunochromatography monoclonal anti-hHB Antibody
Discipline: Serology		
Serum	Antistreptolysin O (ASO)	Latex Agglutination
Serum	C-Reactive Protein (CRP)	Latex Agglutination
Serum	Rheumatoid factor (RF)	Latex Agglutination
Serum	Rapid plasma reagin (RPR)	Latex Agglutination
Serum	Treponema pallidum hemagglutination (TPHA)	Agglutination
Discipline: RT - PCR		
Nasopharyngeal Swab	Detection of the Covid 19 infection	Real Time - Polymerase chain reaction / Biorad CFX96
Nasopharyngeal Swab	Extraction of Covid 19 RNA	Magnetic Bead Based / AIT Ab Genix extractor
Nasopharyngeal Swab	Rapid molecular platform based on RT-PCR to screen Covid 19 infection	Real Time - Polymerase chain reaction / Vita PCR
Urine	Detection of Neisseria gonorrhoeae	Real Time - Polymerase chain reaction / Biorad CFX96
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Materials/Product Tested/ Sample type		
Discipline: Microbiological tests		
Nasopharyngeal, oropharyngeal swab	<i>Streptococcus pyogenes</i> , <i>Streptococcus pneumoniae</i> , <i>Hemophilus</i>	Aerobic Culture / Drug sensitivity
Stool	<i>E. coli</i> O157, <i>Proteus</i> , <i>Citrobacteria</i> , <i>Salmonella</i> , <i>Shigella</i>	Aerobic Culture / Drug sensitivity
Urine	<i>Escherichia coli</i> , <i>Klebsiella</i> , <i>Proteus</i> , <i>Enterococcus faecalis</i> , <i>Staphylococcus species</i> , <i>Streptococcus species</i>	Aerobic Culture / Drug sensitivity
Wound	<i>Staphylococcus species</i> , <i>Streptococcus species</i> , <i>Enterococcus</i> , <i>Pseudomonas aeruginosa</i> , <i>Proteus mirabilis</i> , <i>Klebsiella</i> , <i>Hemophilus</i>	Aerobic Culture / Drug sensitivity
Discipline: Microbiological tests		
Vaginal Smear	Epithelial cells, Pus cells, Clue cells, Organisms	Gram stain /Microscopy
Vaginal Smear	Trichomoniasis	Wet direct smear /Microscope / Nikon YS100
Discipline: Coagulation tests		
Plasma	aPTT	Photo-optical turbodensitometric /Sysmex CA-104
Plasma	PT/ INR	Photo-optical turbodensitometric /Sysmex CA-104
Plasma	Thrombin Time	Photo-optical turbodensitometric /Sysmex CA-104
Plasma	Fibrinogen	Photo-optical turbodensitometric /Sysmex CA-104