



AERSSC

Laboratory: Reliable Diagnostic Laboratory Pvt. Ltd, Nepal

Discipline: Clinical Biochemistry, Clinical Pathology, Immunoassay & Hematology

Certificate Number: MLS-003/4

Issue Date: 09-12-2025

Expiry Date: 08-12-2028

Annexure: Scope for Accreditation

S.N	Product(s)/ material of Test	Specific Tests performed	*Test Method / Standard against which tests are performed	Range of Testing / Limits of Detection	CV%
BIOCHEMISTRY					
1	EDTA Blood	Glycated Hemoglobin A1C	HPLC	3 – 18 %	3.8
2	Plasma Fluoride	Glucose	Glucose oxidase – Peroxidase (GOD-POD) Method	5 - 450 mg/dL	7.9
3	Serum	Albumin	Bromcresol Green Method	0.3 – 6.0 g/dL	6.3
4	Serum	Alkaline Phosphatase (ALP)	IFCC Modified Method	5 – 800 U/L	10.4
5	Serum	Aspartate Aminotransferase (SGOT)	UV-assay IFCC Method	4 – 800 U/L	9.7
6	Serum	Alanine Aminotransferase (SGPT)	UV-assay IFCC Method	4 – 1000 U/L	8.2
7	Serum	Amylase	IFCC Method	5 – 1500 U/L	5.9
8	Serum	Bilirubin Total	Diazotized Sulfanilic Acid (DSA) Method	0 - 35 mg/dL	6.8
9	Serum	Bilirubin Direct	Diazotized Sulfanilic Acid (DSA) Method	0 – 15.2 mg/dL	5.2
10	Serum	Calcium	Arsenazo III Method	1.8- 16.6 mg/dL	4.3
11	Serum	Creatinine	Sarcosine Oxidase Method	0.11 – 79.1 mg/dL	3.7
12	Serum	Cholesterol Total	Cholesterol oxidase – Peroxidase (CHOD-POD) Method	3.8 – 769.2 mg/dL	8.8

13	Serum	Cholesterol HDL	PEG - modified enzyme/sulfate alpha-cyclodextrin method	0.9 – 108 mg/dL	8.3
14	Serum	Gamma-Glutamyltransferase (GGT)	Szasz Method /UV- IFCC Method	4 – 650 U/L	4.6
15	Serum	Iron	Ferrozine (Colorimetric assay)	5.0 – 1117 ug/dL	7.3
16	Serum	Magnesium	Xylidyl Blue Method	0.1 – 4.16 mg/dL	6.1
17	Serum	Phosphorus	Phosphomolybdate Method	0.9 – 12.4 mg/dL	4.4
18	Serum	Potassium	ISE - Direct	Up to 8 mmol/L	7.3
19	Serum	Protein Total	Biuret Method	0.2 – 12 g/dL	8.4
20	Serum	Sodium	ISE - Direct	80 – 160 mmol/L	3.8
21	Serum	Triglyceride	Glycerokinase Peroxidase – Peroxidase (GPO-POD) Method	8.8 - 1106 mg/dL	7.2
22	Serum	Urea	Uricase - Peroxidase Method	0.34 – 25.0 mg/dL	6.8
23	Serum	Uric Acid	Enzyme-coupling Kinetic Method	6 – 240 mg/dL	4.5

Immunoassay

1	Serum	Thyroid Stimulating Hormone	CLIA	0 – 50 m IU/mL	8.6
2	Serum	B – HCG (Total)	CLIA	0.6 - 1350 m IU/mL	7.1
3	Serum	25- OH Vitamin D	CLIA	2 - 167 ng/mL	9.0
4	Serum	Alpha - Fetoprotein (AFP)	CLIA	1.7 - 1000 ng/mL	6.8
5	Serum	Carcino-embryonic Antigen (CEA)	CLIA	0.5 – 100 ng/mL	8.6
6	Serum	CA-125	CLIA	2 - 600 U/mL	9.5
7	Serum	Ferritin	CLIA	0.5 – 1650 ng/mL	8.9
8	Serum	Free T3	CLIA	0.2 – 20 pg/mL	7.2

9	Serum	Free T4	CLIA	0.1 – 12.0 ng/dL	6.3
10	Serum	Luteinizing hormone (LH)	CLIA	0.07 – 200 mIU/mL	6.7
11	Serum	Follicle-stimulating hormone (FSH)	CLIA	0.3 – 200 mIU/mL	7.9
12	Serum	Prolactin	CLIA	0.4 – 200 ng/mL	10.4
13	Serum	Prostate-Specific Antigen (PSA) - Total	CLIA	0.01 – 100 ng/mL	8.0
14	Serum	Testosterone – Total	CLIA	7 – 1500 ng/dL	9.9
15	Serum	Cortisol	CLIA	0.5 – 75 ug/dL	9.5
16	Serum	Vitamin B12	CLIA	50 – 1500 pg/mL	9.0
Hematology					
1	EDTA Whole Blood	Total Count (WBC)	Electrical Impedance	0 - 500x10 ⁹ /L	5.5
2	EDTA Whole Blood	Erythrocyte Count (RBC)	Electrical Impedance	0 - 8.6x10 ¹² /L	1.9
3	EDTA Whole Blood	Hemoglobin (HB)	Electrical Impedance	0 - 26 g/dl	1.9
4	EDTA Whole Blood	Packed Cell Volume (PCV)	Electrical Impedance	0 - 75 %	2.9
5	EDTA Whole Blood	Platelet (PLT)	Flow cytometry	0 - 500x10 ⁹ /L	4.6
6	EDTA Whole Blood	Neutrophil	Flow cytometry		NA
7	EDTA Whole Blood	Lymphocytes	Flow cytometry		NA
8	EDTA Whole Blood	Monocytes	Flow cytometry		NA
9	EDTA Whole Blood	Eosinophils	Flow cytometry		NA
10	EDTA Whole Blood	Basophils	Flow cytometry		NA
11	EDTA Whole Blood	Absolute Neutrophil Count	Flow cytometry		NA
12	EDTA Whole Blood	Absolute Lymphocytes Count	Flow cytometry		NA

13	EDTA Whole Blood	Absolute Monocyte Count	Flow cytometry		NA
14	EDTA Whole Blood	Absolute Eosinophils Count	Flow cytometry		NA
15	EDTA Whole Blood	Absolute Basophils Count	Flow cytometry		NA
16	EDTA Whole Blood	Mean Corpuscular Volume (MCV)	Calculated		NA
17	EDTA Whole Blood	Mean Corpuscular Hb (MCH)	Calculated		NA
18	EDTA Whole Blood	Mean Corpuscular Hb Conc. (MCHC)	Calculated		NA
19	EDTA Whole Blood	Red Cell Distribution (RDW)	Calculated		NA

Clinical Pathology

1	Urine	Color	Macroscopic		NA
2	Urine	Appearance	Macroscopic		NA
3	Urine	Urobilinogen	Strip Analysis		NA
4	Urine	Urine Bilirubin	Strip Analysis		NA
5	Urine	Ketone Bodies	Strip Analysis		NA
6	Urine	Protein	Strip Analysis		NA
7	Urine	Nitrite	Strip Analysis		NA
8	Urine	Urine Leucocyte	Strip Analysis		NA
9	Urine	Sugar	Strip Analysis		NA
10	Urine	Specific Gravity	Strip Analysis		NA
11	Urine	pH	Strip Analysis		NA
12	Urine	Epithelial Cells	Microscopic		NA
13	Urine	Pus cells	Microscopic		NA
14	Urine	RBCs	Microscopic		NA
15	Urine	Casts	Microscopic		NA
16	Urine	Crystals	Microscopic		NA
17	Urine	Other	Microscopic		NA
18	Stool	Colour	Macroscopic		NA

19	Stool	Consistency	Macroscopic		NA
20	Stool	Mucus	Macroscopic		NA
21	Stool	Pus cells	Microscopic		NA
22	Stool	RBCs	Microscopic		NA
23	Stool	Yeasts	Microscopic		NA
24	Stool	Ova	Microscopic		NA
25	Stool	Other	Microscopic		NA

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