



AERSSC

ALFA HEALTH CARE & DIAGNOSTIC CENTRE

PVT. LTD. (ALFA CARE)

Alfa Beta Complex, Buddhanagar, Nepal

**Discipline: BIO-CHEMISTRY, CLINICAL PATHOLOGY &
HEMATOLOGY**

Certificate Number: MSL-013

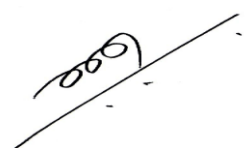
Issue Date: 09-02-2026

Expiry Date: 08-02-2029

Scope of Accreditation

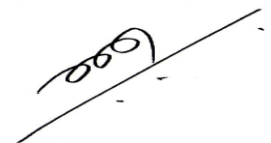
BIOCHEMISTRY					
S. N	Materials examined/tested	Specific tests/ examination performed	Specification, standard (method) or technique used	Range of testing/ Limit of detection	CV %
1.	Serum / fluoride plasma	<i>Blood Sugar</i>	<i>Glucose Oxidase</i>	<i>6.04-473.0</i>	4.7
2.	Serum	<i>Urea</i>	<i>Urease Kinetic</i>	<i>3.06-303.0</i>	4.4
3.	Serum	<i>Creatinine</i>	<i>Enzymatic UV</i>	<i>0.12-27.85</i>	4.7
4.	Serum	<i>Uric Acid</i>	<i>Uricase perox, with ascorb.ox @546 nm</i>	<i>0.34-23.1</i>	3.7
5.	Serum	<i>Cholesterol</i>	<i>Cholesterol-Oxidase-Abell kendall.</i>	<i>33.4 – 640.0</i>	3.6
6.	Serum	<i>Triglycerides</i>	<i>GPO – PAP No Correction</i>	<i>11.9 – 1124.0</i>	5.4
7.	Serum	<i>HDL Cholesterol</i>	<i>Direct Clearance</i>	<i>7.3 – 144</i>	8.8
8.	Serum	<i>SGPT</i>	<i>Tris buffer without P5P at 37°C</i>	<i>9.7 – 603.0</i>	8.7
9.	Serum	<i>SGOT</i>	<i>Tris buffer without P5P at 37°C</i>	<i>7.2-625.0</i>	9.1

10.	Serum	Alkaline Phosphates	AMP	34.7-2183	8.5
11.	Serum	Total Bilirubin	Diazo with Sulpanilic Acid.	0.09-34.1	10.1
12.	Serum	Total Protein	Biuret Reaction End Point	6.0 – 8.0	3.7
13.	Serum	Albumin	Biuret Method	0.265 – 14.0	3.5
14.	Serum	Phosphorus	Phosphomolybdate UV.	0.44-25.0	3.4
15.	Serum	Calcium	Arsenazo III	0.36-17.24	3.5
16.	Serum	Sodium	ISE-Indirect	40 – 140	2.3
17.	Serum	Potassium	ISE-Indirect	Up to 60	3.2
18.	Serum	LDL Cholesterol	Cholesterol oxidase	7.30-860	8.5
19.	Serum	Direct Bilirubin	Colorimetric	0.008-8.11	11.1
20.	Serum	FT3	CLIA	0.2-50	4.5
21.	Serum	FT4	CLIA	2.5-100	8.1
22.	Serum	TSH	CLIA	0.005-100	9.7
23.	Serum	HIV 1 & 2	Immunochromatography	Reactive Non Reactive	
24.	Serum	HBsAg	Immunochromatography	Reactive Non Reactive	
25.	Serum	Widal	Agglutination	Negative<1:80 Positive 1:80 to 1:320	
26.	Serum	HCV	Immunochromatography	Reactive Non Reactive	
27.	Serum	RPR	Flocculation	Reactive Non Reactive	



Hematology					
S.NO	Material examination tested	Specific tests/examination performed	Sepecific, standard (method) or technique used	Range of Testing/limit of detection	CV%
1.	Whole blood with EDTA	Examination of stained smears to access to morphology of cellular compnents	Microscopy		
2.	Whole blood with EDTA	WBC	Flowcytometry	0.3-100	1.8
3.	Whole blood with EDTA	RBC	Electrical impedence	0.03-8.0	1.2
4.	Whole blood with EDTA	HB	SLS	0.21-26	1.0
5.	Whole blood with EDTA	HCT/PCV	Calculated	1.0-75	2.2
6.	Whole blood with EDTA	MCV	Calculated	NA	1.8
7.	Whole blood with EDTA	MCH	Calculated	NA	1.2
8.	Whole blood with EDTA	MCHC	Calculated	NA	2.2
9.	Whole blood with EDTA	PLATELET	Electrical Impedence	10000-5000000	4.1
10.	Whole blood with EDTA	RDWCV%	Calculated	NA	3.0
11.	Whole blood with EDTA	MPV	Calculated	NA	2.40
12.	Whole blood with EDTA	NEUTROPHIL%	Flowcytometry	NA	
13.	Whole blood with EDTA	Absolute Neutrophil Count	Calculated		
14.	Whole blood with EDTA	LYMPHOCYTE %	Flowcytometry	NA	
15.	Whole blood with EDTA	Absolute Lymphocyte Count	Calculated	NA	
16.	Whole blood with EDTA	EOSINOPHIL%	Flowcytometry	NA	

17.	Whole blood with EDTA	Calculated Eosinophil Count	Calculated	NA	
18.	Whole blood with EDTA	MONOCYTE%	Flowcytometry	NA	
19.	Whole blood with EDTA	Absolute Monocyte Count	Calculated	NA	
20.	Whole blood with EDTA	BASOPHIL%	Flowcytometry	NA	
21.	Whole blood with EDTA	Absolute basophil count	Calculated	NA	



Clinical Pathology					
S.NO.	Material examined/tested	Specific tests/examination performed	Specification, standard (method) or technique used	Range of testing/limit of detection	CV%
1.	Urine	Color	Visual	NA	
2.	Urine	Appearance	Visual	NA	
3.	Urine	pH	Double Indicator System	5 – 9	
4.	Urine	Specific Gravity	Ionic concentration measurement (pKa change of polyelectrolyte)	1.005-1.030	
5.	Urine	Protein	Protein error of pH	Negative to Positive (15 – 1000 mg/dl of Albumin)	
6.	Urine	Glucose	Enzymatic glucose oxidase-peroxidase reaction	Negative to Positive (50 – 1000mg/dl)	
7.	Urine	Nitrite	Griess reaction	Negative to positive	
8.	Urine	Urobilinogen	Ehrlich's aldehyde reaction	Negative to positive	
9.	Urine	Ascorbic Acid	Reducing agent reaction	Negative to positive	
10.	Urine	Red Blood Cells	Pseudo-peroxidase activity of heme	0 – innumerable	
11.	Urine	Pus Cells	Enzymatic reaction of leukocyte esterase	0 – innumerable	
12.	Urine	Epithelial Cells	Microscopy	0 – innumerable	
13.	Urine	Crystals	Microscopy	0 – innumerable	
14.	Urine	Casts	Microscopy	0 – innumerable	
15.	Urine	Yeast	Microscopy	0 – innumerable	
16.	Urine	Bacteria	Microscopy	0 – innumerable	

