



## National Reference Laboratory

New Baneshwor, Kathmandu, Nepal

Discipline: **BIO-CHEMISTRY**

**Issue Date:** 10-09-2023

**Expiry Date:** 09-09-2026

Certificate no.: MLS-006

### Scope of Accreditation

The clinical laboratories under the scope of AERSSC accreditation (ISO 15189:2012) are:

S.N.	Product/Material/Item tested	Specific tests/Types of tests	Specification/Standard Method/Technique	Range of Testing/Limit of Detection
1	Glucose		Hexokinase	0-500 mg/dL
2	Urea		Urease UV	0-321 mg/dL
3	Creatinine		Alkaline picrate-kinetic	0.15-20 mg/dL
4	Uric Acid		Uricase UV	0-20 mg/dL
5	Triglycerides		Enzymatic end point	15-1000 mg/dL
6	Total Cholesterol		Cholesterol Oxidase	50-600 mg/dL
7	HDL Cholesterol		Direct measure-PEG	3-150 mg/dL
8	Total Bilirubin		Jendrassik Grof	0.1-25 mg/dL
9	ALT/SGPT		Tris buffer with P5P	6-1000 U/L
10	AST/SGOT		Tris buffer with P5P	0-1000 U/L
11	ALP		AMP buffer, PNPP	10-1000 U/L
12	Total Protein		Biuret end point	2.0-12.0 g/dL
13	Albumin		Bromocresol purple (BCP)	0.6-8.0 g/dL
14	Amylase		CNP-triose	0-650 U/L
15	Lipase		Colorimetric	10-1500 U/L
16	Iron		Ferene	5-1000 µg/dL
17	Free T3		CLIA	0.2-20 pg/mL
18	Free T4		CLIA	0.1-12.0 ng/dL
19	TSH		CLIA	0.008-150 µIU/mL
20	Vitamin D		CLIA	4.2-150 ng/mL