

Laboratory: Chitwan Medical College Pvt. Ltd., Nepal

Discipline: Clinical Biochemistry, Haematology & Immunohematology, Immunology, Microbiology and Serology

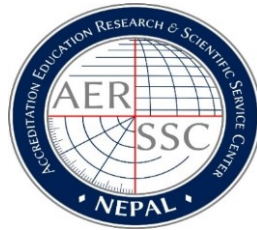
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Annexure: Scope for Accreditation

SN	MATERIALS EXAMINED/TESTED	SPECIFIC TESTS/EXAMINATION PERFORMED	SPECIFICATION, STANDARD (METHOD) OR TECHNIQUE USED	RANGE OF TESTING/LIMIT OF DETECTION	MU (+/-)
BIOCHEMISTRY					
1.	SERUM/PLASMA	ALANINE AMINOTRANSFERASE (ALT)	UV-KINETIC WITH PLP	6 – 1000 U/L [0.10 – 16.70 μ kat/L]	0.17
2.	SERUM/PLASMA	ALBUMIN	PROMOCRESOL PURPLE	0.6 – 8.0 g/dL [6 – 80 g/L]	0.04
3.	SERUM /PLASMA	ALKALINE PHOSPHATASE	PNP AMP KINETIC	10 – 1000 U/L [0.17 – 16.70 Mkat/L]	0.04
4.	SERUM, PLASMA AND URINE	AMYLASE	CNPG3 METHOD	0 – 650 U/L	0.03
5.	SERUM/PLASMA	ASPARTATE AMINOTRANSFERASE (AST)	UV-KINETIC WITH PLP	0 – 1000 U/L	0.09
6.	SERUM, PLASMA AND URINE	CHOLESTEROL	CHOLESTEROL OXIDASE / PHENOL AMINOANTIPYRINE PEROXIDASE (CHOD/PAP)	150-250 mg/dL	0.02
7.	SERUM, PLASMA AND URINE	CREATININE	KINETIC JAFFE REACTION	0.15 – 20.00 mg/dL [13 – 1768 μ mol/L]	0.13
8.	SERUM, PLASMA	CREATINE KINASE NAC	IFCC (NAC ACTIVATED)	7-1000 U/L	0.04
9.	SERUM, PLASMA, URINE, AND CEREBROSPINAL FLUID	GLUCOSE	HEXOKINASE	0-500 mg/dl (0-27.8 mmol/L)	0.04
10.	BLOOD	HBA1C	TURBIDIMETRIC INHIBITION IMMUNOASSAY (TINIA) PRINCIPLE	3.6 – 16.0 %	0.52
11.	SERUM AND PLASMA SAMPLES	HIGH-DENSITY LIPOPROTEIN (HDL)	DIRECT METHOD (DEXTRONE SULFATE)	3 – 150 mg/dL [0.08 – 3.89 mmol/L]	0.04
12.	SERUM AND PLASMA	IRON	DIRECT METHOD /FERENE	5 – 1000 μ g/dL [0.9 – 179.0 μ mol/L]	0.03
13.	SERUM, HEPARINIZED PLASMA AND URINE	MAGNESIUM (MG)	XYLIDUL BLUE	0.0-20.0 mg/dl [0.00- 8.22 mmol/L]	0.00
14.	SERUM, PLASMA AND URINE	PHOSPHORUS	PHOSPHOMOLYBDATE METHOD	0-9.0 mg/dl [0.00-2.90mmol/L]	0.04
15.	SERUM,	POTASSIUM		2 or 6 mmol/L	0.05



	HEPARINIZED PLASMA AND DILUTED URINE		ION SELECTIVE ELECTRODES (ISE)		
16.	SERUM, HEPARINIZED PLASMA AND DILUTED URINE	SODIUM	ION SELECTIVE ELECTRODES (ISE)	120 or 160 mmol/L	0.02
17.	EDTA WHOLE BLOOD	TACROLIMUS	ECLIA	0.5-40 ng/mL	0.09
18.	SERUM AND PLASMA	TOTAL BILIRUBIN	JENDRASSIK AND GROF	0.1-25.0 mg/dl [2-428 mmol/L]	0.11
19.	SERUM AND HEPARINIZED PLASMA	TOTAL PROTEIN	BIURET REACTION	2.0-12.0 g/dl [20-120 g/L]	0.08
20.	SERUM AND PLASMA	TRIGLYCERIDES	GLYCEROL PHOSPHATE OXIDASE /PHENOL AMINOANTIPYRINE PEROXIDASE.	15 – 1000 mg/dL [0.17 – 11.3 mmol/L]	0.07
21.	SERUM, PLASMA AND URINE	UREA NITROGEN	UV/GLDH	0 – 150 mg/dl [0 – 53.5 mmol/l]	0.02
22.	SERUM, PLASMA AND URINE	URIC ACID	URICASE METHOD	0 – 20.0 mg/dL [0 – 1190 μ mol/L]	0.06
23.	SERUM SAMPLES	ALPHA-FETO PROTEIN (AFP)	CLIA	1.3–1000 ng/mL (1.08–830 IU/mL)	0.04
24.	SERUM SAMPLES	CORTISOL	CLIA	0.20–75 μ g/dL (5.5–2069 nmol/L)	0.04
25.	SERUM SAMPLES	ESTRADIOL	CLIA	11.8–3000 pg/mL (43.6–11,010 pmol/L)	0.02
26.	SERUM SAMPLES	FOLLICLE STIMULATING HORMONE (FSH)	CLIA	0.3–200 mIU/mL (IU/L)	0.06
27.	SERUM SAMPLES	FREE THYROXINE (FT4)	CLIA	0.1–12.0 ng/dL (1.3–155 pmol/L).	0.00
28.	SERUM SAMPLES	PROGESTERONE (PRGE)	CLIA	0.21 ng/mL (0.67 nmol/L)	0.08
29.	SERUM SAMPLES	PROLACTIN HORMONE (PRL)	CLIA	0.3 ng/mL (6.4 μ IU/mL)	0.08
30.	SERUM SAMPLES	TOTAL BETA HCG HORMONE	CLIA	2.0–1000 mIU/mL (IU/L)	0.06
31.	SERUM SAMPLES	THYROID STIMULATING HORMONE (TSH)	CLIA	0.010–150 μ IU/mL (mIU/L)	0.10
32.	SERUM SAMPLES	TRIIODOTHYRO	CLIA	1.76 to 17.57 pg/mL	0.05



		NINE (FT3)		(2.7 to 27.1 pmol/L)	
VIROLOGY					
33.	SERUM SAMPLES	ANTI-HBS	CLIA	1 – 1000 INDEX	-
34.	SERUM SAMPLES	DENGUE IGG/IGM COMBO	IMMUNOCHROMATOGRAPHY	-	-
35.	SERUM SAMPLES	DENGUE NS1 AG	IMMUNOCHROMATOGRAPHY	-	-
36.	SERUM SAMPLES	HAV IGM	IMMUNOCHROMATOGRAPHY	-	-
37.	SERUM SAMPLES	ANTI-HBC TOTAL	CLIA	0.05–9.00 INDEX	-
38.	SERUM SAMPLES	HBE AB	CLIA	0.05–1000 INDEX	-
39.	SERUM SAMPLES	HBE AG	CLIA	0.05–1000 INDEX	-
40.	SERUM SAMPLES	HBS AG	CLIA	0.1 TO 1000 INDEX	-
41.	SERUM SAMPLES	HBS AG RDT	IMMUNOCHROMATOGRAPHY	-	-
42.	SERUM SAMPLES	HCV AB RDT	IMMUNOCHROMATOGRAPHY	-	-
43.	SERUM SAMPLES	HEV IGM	IMMUNOCHROMATOGRAPHY	-	-
44.	SERUM SAMPLES	HIV RDT	IMMUNOCHROMATOGRAPHY	-	-
MICROBIOLOGY					
45.	SAMPLES FOR CULTURE AND AST ARE URINE, STOOL ,BLOOD, PUS, SPUTUM, BODY FLUIDS,CSF etc.	CULTURE AND AST	DISK DIFFUSION METHOD AND AUTOMATED VITEK SYSTEM	-	-
46.	SAMPLES FOR GRAM STAIN ARE URINE, STOOL ,BLOOD, PUS, SPUTUM, BODY FLUIDS,CSF etc.	GRAM STAIN	GRAM STAIN PROCEDURE	-	-
47.	SERUM SAMPLES	CRP	TURBIDIMETRY	-	-
48.	SERUM SAMPLES	RA	NEPHELOMETRY	-	-
49.	SERUM SAMPLES	WIDAL	SLIDE AGGLUTINATION	-	-
50.	SERUM SAMPLES	SYPHILIS	CHROMATOGRAPHY	-	-
TRANSFUSION					
51.	BLOOD	ABO RHO D FORWARD GROUPING	COLUMN GEL	-	-
52.	BLOOD	COOMBS TEST AND CROSS MATCHING	COLUMN GEL	-	-
HAEMATOLOGY					
53.	BLOOD	HEMOGLOBIN	CYNYMETHEMOGLOBIN	0.8-24.0 gm/dl	0.04
54.	BLOOD	PLATELET	IMPEDANCE	10-5000 x 10 ³ /mm ³	0.03
55.	BLOOD	RED BLOOD CELL	IMPEDANCE	0.3-8.0x 10 ⁶ /mm ³	0.23
56.	BLOOD	WHITE BLOOD CELL	INPEDANCE	0.1-300 x 10 ³ /mm ³	0.03

(Signature)