



Laboratory: Reliable Diagnostic Laboratory Nepal
Balaju, Kathmandu, Nepal

Discipline: **CLINICAL BIO-CHEMISTRY, CLINICAL
PATHOLOGY, IMMUNOLOGY and
HAEMATOLOGY**

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MATERIAL/PRODUCT	TASK NAME	STANDARD METHOD
Serum	HIV	Rapid TRI-DOT Method (J. Mitra) Antibody against gp41, C terminal of gp120 & gp36 antigens
Serum	CMV IgG	Enzyme linked immunosorbent assay
Serum	CMV IgM	Enzyme linked immunosorbent assay
Serum	Herpes IgG	Enzyme linked immunosorbent assay
Serum	Herpes IgM	Enzyme linked immunosorbent assay
Serum	Rubella IgG	Enzyme linked immunosorbent assay
Serum	Rubella IgM	Enzyme linked immunosorbent assay
Serum	Toxo IgG	Enzyme linked



		immunosorbent assay
Serum	Toxo IgM	Enzyme linked immunosorbent assay
Serum	Anti ds-DNA	Enzyme linked immunosorbent assay
Serum	Anti Nuclear Antibody (ANA)	Chemiluminescence immunosorbent assay
Serum	Anti-CCP	Enzyme linked immunosorbent assay
Serum	C-peptide	Enzyme linked immunosorbent assay
Serum	Total IgE	Enzyme linked immunosorbent assay
Serum	TPO-Antibody	Chemiluminescence immunosorbent assay
Serum	• -hCG (Total)	Chemiluminescence immunosorbent assay
Serum	25-OH Vitamin D	Chemiluminescence immunosorbent assay
Serum	Alpha- fetoprotein (AFP)	Chemiluminescence immunosorbent assay
Serum	CA 125	Chemiluminescence immunosorbent assay
Serum	CEA	Chemiluminescence immunosorbent assay
Serum	DHEA-S	Enzyme linked immunosorbent assay
Serum	Ferritin	Chemiluminescence immunosorbent assay
Serum	Free T3	Chemiluminescence immunosorbent assay
Serum	Free T4	Chemiluminescence immunosorbent assay
Serum	TSH	Chemiluminescence immunosorbent assay
Serum	LH	Chemiluminescence immunosorbent assay
Serum	FSH	Chemiluminescence



		immunosorbent assay
Serum	Prolactin	Chemiluminescence immunosorbent assay
Serum	PSA	Chemiluminescence immunosorbent assay
Serum	Testosterone	Chemiluminescence immunosorbent assay
Serum	Vitamin B12	Enzyme linked immunosorbent assay
Serum	Adenosine Deaminase (ADA)	Enzymatic Deamination
Body Fluids	Adenosine Deaminase (ADA)	Enzymatic Deamination
Serum Method)	Albumin	BCG (Dye Binding
Serum	Alkaline Phosphate (ALP)	4- Nitrophenyl phosphate (pNPP) / AMP (2-amino-2-methyl-1- propanol) buffer
Serum	Aspartate Aminotransferase (SGOT)	UV Kinetic
Serum	Alanine Aminotransferase (SGPT)	UV Kinetic
Serum	Amylase	Chromogenic dyed amylopectin two point kinetic method
Urine	Amylase	Chromogenic dyed amylopectin two point kinetic method
Serum	Bilirubin Total	Modified jendrassik/Grof Method
Serum	Bilirubin Direct	Modified jendrassik/Grof Method
		Method
Serum	Calcium	Arsenazo- III dye
Urine	Calcium	Arsenazo- III dye
Serum	Creatinine	Jaffe's reaction method
Urine	Creatinine	Jaffe's reaction method
Serum method	CRP	Latex agglutination



Serum	Chloride	Ion Selective Electrode (ISE)
Serum	Chloride	Ion Selective Electrode (ISE)
Serum	Cholesterol Total	Enzymatic (CHE/CHO/POD)
Serum Mgcl2-	Direct HDL	Phosphotungstic acid/
Serum	GGT	Enzymatic L-gamma-glutamyl - 4 – nitroanalide/
		Glycylglycine kinetic method
Serum	Globulin	Calculation
Serum	Glucose	Enzymatic (GOD-POD)
Serum Colorimetric	Iron	Photometric
		LCF/CAB
Serum	Lactate-Dehydrogenase (LDH)	Pyruvate to lactate kinetic method
Serum	Megnesium	Colorimetric Method/ Formazon
Urine	Microalbumin	Dye Immunofluorescence assay (POCT)
Serum reduction	Phosphorous	Phosphomolybdate
		(PMA Phenol)
\Serum Serum	Potassium Rheumatoid Factor RF	Ion Selective Electrode (ISE) Latex agglutination
Serum (ISE) Urine	Sodium Sodium	Ion Selective Electrode Ion Selective Electrode
(ISE) Serum Point	Total Protein	Biuret Method(End-
Urine	Protein	reaction) Biuret Method(End-
		Point reaction)
Serum	Total Iron-Binding Capacity	Iron Saturation /dye binding method
Serum	Triglyceride	Enzymatic (Lipase/ GK/ GPO/ POD)
Serum	Troponin I	Immunochromatography



Urine

Urine Protein Cratinine Ratio

Same as Urine Protein ()
Creatinine()



Serum	Uric Acid	Uricase Enzymatic
Method Urine	Uric Acid	Uricase Enzymatic
Method Serum	Urea	Urease with
indicator dye		
Whole Blood(EDTA)	Absolute eosinophil count	Calculated from Total count and % eosinophil count
Whole Blood(EDTA)	Blood Group (ABO & RH)	Slide and Tube Agglutination
Whole Blood(EDTA)	Different Leucocyte Count	Microscopy
Serum/Plasma	Direct Coomb's Test (DCT)	Tube Agglutination test
Whole Blood(EDTA)	Erythrocyte	Westergren tube method
Whole Blood(EDTA)	Sedimentation rate (ESR)	
	Haematocrite(HCT)	Electrical Impedance
		/Wintrob's tube
Whole Blood(EDTA)	Haemoglobin	SLS method Serum/Plasma
Indirect Coombs test	Tube Agglutination test Whole Blood(EDTA)	
Malaria Parasite	Rapid malaria antigen card/	
		microscopy
Whole Blood(EDTA)	Mean Cell Volume (MCV)	Calculated
Whole Blood(EDTA)	Mean Cell Haemoglobin	Calculated
	(MCH)	
Whole Blood(EDTA)	Mean cell haemoglobin	Calculated
	Concentration (MCHC)	
Whole Blood(EDTA)	Peripheral Blood Smear	
Microscopy		
Whole Blood(EDTA)	Platelets Count	Electrical
Impedance Whole Blood(EDTA)	Platelets Distribution Width	
Electrical Impedance Whole Blood(EDTA)		Red Blood Cell Count
Electrical Impedance Whole Blood(EDTA)		WBC Count
Electrical Impedance Whole Blood(EDTA)		Micro filaria
Direct Microscopy		
Urine	Bence-Jones Protein	Heat and Acid method/
Urine	Bile-Pigment	Visual turbidimetry
Urine	Bile-Salt	Reagent Strip Method
		Heys method



Urine	Bilirubin	Reagent Strip Method
Urine	Fat Globules	Microscopic
Urine	Blood (erythrocyte and Haemoglobin)	Strip-Method
Urine	Glucose	Reagent Strip Method Benedict's method
Urine	Ketone	Reagent Strip Method
Urine	Leukocytes	Strip method
Urine	Microscopic Examination	Visual Examination
Urine	Nitrate	Ehrlich's Test (Watson Schwart ₃ Test)
Stool	Occult Blood	Benzidine method
Urine	pH	Strip Method
Urine	Physical examination	Gross & Microscopy
Urine	Porphobilinogen	Reagent Strip Method
Urine	Protein	Reagent Strip Method
Urine	Specific gravity	Reagent Strip Method
Stool	Stool R/E	Microscopic Examination
Stool	Reducing Substance	Benedicts method
Urine	Urobilinogen	Strip-Method

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