

**Laboratory** National AIDS Research Institute, Plot No. 73, 'G' Block, MIDC, Bhosari, Pune, Maharashtra

**Accreditation Standard** ISO 15189: 2012

**Field** Medical Testing

**Issue Date** 03.06.2016

**Certificate Number** M-0239

**Valid Until** 02.06.2018

**Last Amended on** 23.06.2016

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
<b>I. CLINICAL BIOCHEMISTRY</b>					
1.	SERUM	Albumin	Bromocresol Green	1.50 - 6.50 g/dl	3.2
2.	SERUM	Alkaline Phosphatase	PNP AMP Kinetic	5.0 - 1633.5 IU/L	9.2
3.	SERUM	SGPT (ALT)	UV Kinetic	3.0 - 652.5 IU/L	6.4
4.	SERUM	SGOT (AST)	UV Kinetic	3.0 - 652.0 IU/L	4.2
5.	SERUM	Bilirubin (Total)	Diazonium Salt	0.08 - 28.0 mg/dl	3.8
6.	SERUM	Cholesterol	Enzymatic	20 - 695 mg/dl	3.3
7.	SERUM	Creatinine	Jaffe's, Kinetic.	0.26 - 24.89 mg/dl	3.3
8.	SERUM	Total Proteins	Biuret	1.8 - 12.0 g/dl	3.3
9.	SERUM	Triglycerides	Enzymatic	9 - 995 mg/dl	3.4
10.	SERUM	Urea	Urease - GLDH	4.8 - 300 mg /dl	2.9
11.	SERUM	Uric Acid	Uricase, Peroxidase	1.5 - 26.0 mg/dl	2.7
12.	PLASMA	Glucose	Hexokinase	11 - 810 mg/dl	3.1
<b>II. HAEMATOLOGY &amp; IMMUNOHAEMATOLOGY</b>					
1.	WHOLE BLOOD (EDTA)	Hemoglobin	Cyan Meth - Hemoglobin	2.55 - 23.60 g/dl	1.5

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2.	WHOLE BLOOD (EDTA)	Total WBC Count	Impedance Flowcytometry	0.4 - 97.6 x 10 <sup>3</sup> /μL	4.1
3.	WHOLE BLOOD (EDTA)	RBC Count	Impedance Flowcytometry	0.85 – 7.83 x 10 <sup>6</sup> /μL	1.3
4.	WHOLE BLOOD (EDTA)	Hematocrit	Impedance Flowcytometry	0.0 – 80.0 %	1.3
5.	WHOLE BLOOD (EDTA)	Mean Corpuscular Volume (MCV)	Calculated Parameters	NA	1.2
6.	WHOLE BLOOD (EDTA)	Mean Corpuscular Hemoglobin (MCH)	Calculated Parameters	NA	1.1
7.	WHOLE BLOOD (EDTA)	Mean Corpuscular Hemoglobin Concentration (MCHC)	Calculated Parameters	NA	1.5
8.	WHOLE BLOOD (EDTA)	Platelet Count	Impedance Flowcytometry	0.5 - 998 x 10 <sup>3</sup> /μL	7.3
9.	WHOLE BLOOD (EDTA)	Neutrophil %	Impedance Flowcytometry, Light Scattering	NA	4.3

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10.	WHOLE BLOOD (EDTA)	Lymphocyte %	Impedance Flowcytometry, Light Scattering	NA	8.6
11.	WHOLE BLOOD (EDTA)	Monocyte %	Impedance Flowcytometry, Light Scattering	NA	45.9
12.	WHOLE BLOOD (EDTA)	Eosinophil %	Impedance Flowcytometry, Light Scattering	NA	11.4
13.	WHOLE BLOOD (EDTA)	Basophil %	Impedance Flowcytometry, Light Scattering	NA	2.5
14.	WHOLE BLOOD	Enumeration of CD4	Flow Cytometry		
			1) B - D FACS Count	0 - 2000	CD3 - 9.6 CD4 - 10.5
			2) B - D FACS Calibur	0 - 100000 Cells/cumm	CD3 - 14.2 CD4 - 18.1
<b>III. MICROBIOLOGY &amp; SEROLOGY</b>					
1.	SERUM / PLASMA	Detection of HIV 1 and 2 Antibodies	ELISA	Reactive / Non Reactive	9.9

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2.	SERUM / PLASMA	Detection of HIV 1 and 2 Antibodies	Rapid based on following principles 1. Dot Blot/Dot Immunoassay 2. Immunochromatography 3. Immunoconcentration Confirmatory Test as per NACO Guideline	Reactive / Non Reactive	NA
3.	SERUM / PLASMA	Detection of HIV 1 and 2 Antibodies	Immuno Blot Assay (Western Blot)	Negative / Positive	NA
4.	SERUM / PLASMA	HBsAg Test	ELISA	Negative / Positive	7.0
5.	SERUM / PLASMA	HCV Test	ELISA	Negative / Positive	10.2
6.	SERUM / PLASMA	RPR Test	Flocculation Test	Reactive / Non Reactive	NA
7.	SERUM / PLASMA	TPHA	Haemagglutination Assay	Negative / Positive	NA
8.	WHOLE BLOOD	Detection of HIV1 gag gene (Provirus)	Qualitative Nested PCR	Negative / Positive	NA
9.	DRIED BLOOD SPOT	Real Time HIV1 Qualitative	Qualitative PCR	Negative / Positive	NA

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10.	PLASMA	Viral Load Assay (Quantitation of HIV-1 RNA Copies/ml)	Real Time PCR Assay (Automatic)	40 - 10 x 10 <sup>6</sup> HIV - 1 RNA copies / ml	1.6

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