

**Laboratory** Millennium Special Pathology Laboratory, Office No. 10, 11, 12,  
First Floor, N.K. Image, Tilak Road, 2015 Sadashiv Peth, Pune,  
Maharashtra

**Accreditation Standard** ISO 15189: 2012

**Field** Medical Testing **Issue Date** 15.12.2016

**Certificate Number** M-0184 **Valid Until** 14.12.2018

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
<b>I. <u>CLINICAL BIOCHEMISTRY</u></b>					
<b><u>ENDOCRINOLOGY TESTS</u></b>					
<b><u>THYROID HORMONES</u></b>					
1.	SERUM	Triiodothyronine (T3)	Chemiluminescence	0.1 – 8 ng/ml	6.8
2.	SERUM	Thyroxine (T4)	Chemiluminescence	0.3 – 30 ug/dl	5.9
3.	SERUM	Thyroid stimulating hormone (TSH)	Chemiluminescence	0.010 – 100 uIU/ml	5.2
4.	SERUM	Free Triiodothyronine (FT3)	Chemiluminescence	1.0 – 30.0 pg/ml	8.0
5.	SERUM	Free Thyroxine (FT4)	Chemiluminescence	0.4 – 6.0 ng/dl	5.0
<b><u>REPRODUCTIVE HORMONES</u></b>					
6.	SERUM	Follicle Stimulating Hormone (FSH)	Chemiluminescence	0.3 – 150 mIU/ml	3.6
7.	SERUM	Luteinizing Hormone (LH)	Chemiluminescence	0.07 – 250 mIU/ml	5.8
8.	SERUM	Prolactin	Chemiluminescence	0.3 – 200 ng/ml	4.7
9.	SERUM	Estradiol	Chemiluminescence	10 – 1000 pg/ml	6.6

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
10.	SERUM	Progesterone	Chemiluminescence	0.15 – 60 ng/ml	8.5
11.	SERUM	Total Testosterone	Chemiluminescence	0.6 - 1.0 nmol/L	9.2
12.	SERUM	Total $\beta$ - HCG	Chemiluminescence	1.2 – 15000 mIU/ml	6.7
13.	SERUM	Free Beta – HCG	Chemiluminescence	2 – 200 ng/ml	4.2
14.	SERUM	Unconjugated Estriol	Chemiluminescence	0.25 – 30 ng/ml	9.9
15.	SERUM	PAPP-A	Chemiluminescence	0.1 - 10 mIU/ml	7.9
16.	SERUM	Triple Marker (2 <sup>nd</sup> Trimester)			
		ALFA Fetoprotein (AFP)	Chemiluminescence+ PRISCA Software	2.0 – 2000.0 ng/ml	5.8
		Unconjugated Estriol	Chemiluminescence+ PRISCA Software	0.25 – 30 ng/ml	9.9
		Total $\beta$ - HCG	Chemiluminescence+ PRISCA Software	1.2 – 15000 mIU/ml	6.7
17.	SERUM	Double Marker Tests			
		Pregnancy Associated Plasma Protein – A (PAPP-A)	Chemiluminescence+ PRISCA Software	0.1 - 10 mIU/ml	7.9

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		Free Beta – HCG	Chemiluminescence+ PRISCA Software	2 - 200 ng/ml	4.2
18.	SERUM	Cortisol	Chemiluminescence	0.8 – 59.8 ug/dl	6.4
19.	SERUM	Insulin	Chemiluminescence	1.0 – 300.0 mU/L	4.7
20.	SERUM	Vitamin B 12	Chemiluminescence	83 - 2000 pg/ml	7.1
21.	SERUM	Ferritin	Chemiluminescence	0.5 - 2000ng/ml	7.3
22.	SERUM	Folic Acid	Chemiluminescence	0.35 – 20 ng/ml	9.4
<b><u>TUMOR MARKERS</u></b>					
23.	SERUM	Alfa fetoprotein (AFP)	Chemiluminescence	2.0 – 2000.0 ng/ml	5.8
24.	SERUM	Carcinoembryonic antigen (CEA)	Chemiluminescence	0.5 – 1500 ng/ml	6.9
25.	SERUM	Total Prostate Specific Antigen (PSA)	Chemiluminescence	0.008 – 100 ng/ml	5.6
26.	SERUM	CA 125	Chemiluminescence	1.0 – 1000 U/ml	3.4
27.	SERUM	CA 19.9	Chemiluminescence	2.0 – 1200 U/ml	11.0
28.	SERUM	25-OH Vitamin D	Chemiluminescence	3.4 - 155.9 ng/ml	6.2

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<b><u>BIOCHEMISTRY ROUTINE</u></b>					
29.	FLUORIDE PLASMA	Glucose	Glucose Oxidase (Trinder's method)	20 - 450 mg/dl	4.9
30.	SERUM	Urea	Urease End Point	1 – 300 mg/dl	5.0
31.	SERUM	Creatinine	Jaffe Reaction	0.01 – 18.0 mg/dl	11.5
32.	SERUM	Cholesterol	CHOD-PAP	10 – 600 mg/dl	4.9
33.	SERUM	Triglycerides	GPO Method	0.01 – 1000 mg/dl	8.8
34.	SERUM	HDL Cholesterol	PVS/PE GME Method	1.90 – 193 mg/dl	10.7
35.	SERUM	Total Cholesterol/ Hdl Cholesterol Ratio	Calculation	NA	NA
36.	SERUM	VLDL Cholesterol	Calculation	NA	NA
37.	SERUM	LDL Cholesterol	Calculation	NA	NA
38.	SERUM	Serum Glutamate Pyruvate Transaminase (SGPT)	IFCC without P5P	3 – 1600 U/L	11.9
39.	SERUM	Serum Glutamate Oxaloacetate Transaminase (SGOT)	IFCC without P5P	2.5 – 1600 U/L	8.2

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40.	SERUM	Albumin	Bromocresol Green	1 – 6 g/dl	3.9
41.	SERUM	Total Protein	Biuret End Point Method	0.37 – 16.0 g/dl	9.9
42.	SERUM	Total Bilirubin	Diazo Method	0.08 – 20 mg/dl	6.0
43.	SERUM	Direct Bilirubin	Diazo Method	0.08 – 15 mg/dl	11.4
44.	SERUM	Uric Acid	Uricase/POD	0.18 – 16 mg/dl	7.4
45.	SERUM	Calcium	Modified Arsenazo Method	0 – 14 mg/dl	5.7
46.	SERUM	Phosphorus	Phosphomolyb Formation	0.17 – 13 mg/dl	7.2
47.	SERUM	Amylase	CNPG3	5 – 2000 U/L	8.3
48.	SERUM	Magnesium	Xylidyl blue with ATCS	0.2 – 5 mg/dl	7.3
49.	SERUM	Alkaline Phosphatase	p-Nitrophenyl phosphate AMP buffer	3.2 – 1080 U/L	7.2
50.	SERUM	Lipase	Methyl resorufin	10 – 300 U/L	5.8
51.	WHOLE BLOOD	HbA1c	HPLC	3.8 - 18.5%	3.6
52.	SERUM	Sodium	Ion-Selective Electrode (Direct)	95 – 215 mmol/L	3.4

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53.	SERUM	Potassium	Ion-Selective Electrode (Direct)	1.0 – 11 mmol/L	3.5
54.	SERUM	Chloride	Modified Thiocyanate Method	65 -130 mmol/L	3.5
<b>II. <u>CLINICAL PATHOLOGY</u></b>					
1.	URINE	<u>Physical Examination</u>			
		Volume	Visual	Measured in ml	NA
		Appearance	Visual	Clear, Slightly hazy, Hazy	NA
		Colour	Visual	Colourless, Pale yellow, yellow, Dark Yellow, Orange, Red etc.	NA
		<u>Chemical Examination</u>			
		Glucose	Glucose Oxidase, Peroxidase Method	Present/Absent. If present Trace to 4+	NA
		Bilirubin	Diazotized Dichloroaniline	Present/Absent. If present 1+ to 3+	NA
		Ketone	Sodium- Nitroprusside Method	Present/Absent. If present Trace to 4+	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
		Protein	Tetrabromphenol Method	Present/Absent. If present Trace to 4+	NA
		pH	Double Indicator Procedure	Interpreted as acidic, neutral or alkaline	NA
		Urobilinogen	Ehrlich Reaction	Present/Absent. If present Trace to 3+	NA
		Specific Gravity	Ionic Concentration	1.000 to 1.030	NA
		Blood	Diisopropylbenzene Dihydroperoxide and Tetramethylbenzidine Method	Present/Absent. If present Trace to 3+	NA
		Urine - Microscopy	Microscopic Observation	Types Of Cells, Number, Casts, Crystals, Parasites Etc	NA
<b>2.</b>	<b>STOOL</b>	<u>Physical Examination</u>			
		Colour	Visual Examination	Brownish, yellowish, greenish etc	NA
		Consistency	Visual Examination	Liquid, semi liquid, semi solid, Solid	NA
		Blood	Visual Examination	Present / Absent	NA

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		Mucus	Visual Examination	Present / Absent	NA
		<u>Chemical Examination</u>			
		Occult Blood	Non-Benzidine Method	Present/Absent. If present Trace-4+	NA
		Microscopic	Microscopy by Lugol's iodine	Cysts, ova, Type of cells	NA
3.	<b>RANDOM URINE</b>	Pregnancy test	Rapid Chromatographic Immunoassay	Interpreted as positive or negative	NA
4.	<b>RANDOM URINE</b>	Drugs of Abuse (Amphetamine, Benzodiazepine, Barbiturate, Cocaine, Marijuana, Morphine)	Competitive binding immunoassay	Interpreted as positive or negative	NA
<b>III. <u>HAEMATOLOGY &amp; IMMUNOHAEMATOLOGY</u></b>					
1.	<b>EDTA BLOOD</b>	Hemoglobin	Non-cyanide Hemoglobin method	0.1 – 25.0 g/dl	3.0
2.	<b>EDTA BLOOD</b>	Total WBC Count	DC Detection Method	1.0 – 99.9 x 10 <sup>3</sup> /ul	6.1
3.	<b>EDTA BLOOD</b>	RBC Count	DC Detection Method	0.3 - 7 x 10 <sup>6</sup> /ul	5.4
4.	<b>EDTA BLOOD</b>	Platelet Count	Impedence Measurement	10.0 – 999 x 10 <sup>3</sup> /ul	6.8

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
5.	EDTA BLOOD	Mean Corpuscular volume (MCV)	Calculated	78 – 92 fl	3.0
6.	EDTA BLOOD	Mean corpuscular Hemoglobin (MCH)	Calculated	28 – 32 pg	4.5
7.	EDTA BLOOD	Mean Corpuscular Hemoglobin Concentration (MCHC)	Calculated	32-37%	3.9
8.	EDTA BLOOD	Packed cell volume	Calculated	10.0 – 60.0 g/dl	4.3
9.	EDTA BLOOD	Peripheral smear study	Microscopy of stained smear	Morphology of WBC, RBC, Platelets and presence or absence of parasites	NA
10.	CITRATE BLOOD	Erythrocyte sedimentation rate	Westergren Method	0 – 200 mm/hr	NA
11.	EDTA BLOOD AND CLOT	Blood Group	Tube Agglutination And Slide Method	Interpreted as A, B, AB, O blood groups and Rh factor as “Positive” or “Negative“	NA
12.	EDTA BLOOD	Absolute Eosinophil Count	Microscopy + Impedence Measurement	NA	NA

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13.	<b>EDTA BLOOD</b>	Malaria Parasite	Microscopy	Interpreted as detected (P. falciparum or P. vivax) or not detected	NA
14.	<b>EDTA BLOOD</b>	Reticulocyte Count	Microscopy of Stained Smear (Brilliant Cresyl Blue)	0-100%	8.3
15.	<b>EDTA BLOOD</b>	Hemoglobin Variants			
		Hb A2	High Performance Liquid Chromatography	0-100%	8.5
		Hb F	High Performance Liquid Chromatography	0-100%	7.8
<b><u>IMMUNO HEMATOLOGY</u></b>					
<b><u>HIV MONITORING TEST</u></b>					
16.	<b>EDTA BLOOD</b>	Absolute CD4	Flow Cytometry / Impedence Measurement	50 - 5000 cells/uL	7.7
17.	<b>EDTA BLOOD</b>	Absolute CD4+CD8	Flow Cytometry / Impedence Measurement	43 -3900 cells/uL	5.3
<b><u>LEUKEMIA IMMUNOPHENOTYPING</u></b>					
18.	<b>EDTA BLOOD, BONE MARROW, BODY FLUIDS</b>	CD3	Flow Cytometry	Interpreted as Negative and Positive	NA

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19.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD4	Flow Cytometry	Interpreted as Negative and Positive	NA
20.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD8	Flow Cytometry	Interpreted as Negative and Positive	NA
21.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD5	Flow Cytometry	Interpreted as Negative and Positive	NA
22.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD7	Flow Cytometry	Interpreted as Negative and Positive	NA
23.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD10	Flow Cytometry	Interpreted as Negative and Positive	NA
24.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD19	Flow Cytometry	Interpreted as Negative and Positive	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
25.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD10/ CD 19 DUAL	Flow Cytometry	Interpreted as Negative and Positive	NA
26.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD20	Flow Cytometry	Interpreted as Negative and Positive	NA
27.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD 117	Flow Cytometry	Interpreted as Negative and Positive	NA
28.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD 64	Flow Cytometry	Interpreted as Negative and Positive	NA
29.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD13	Flow Cytometry	Interpreted as Negative and Positive	NA
30.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD14	Flow Cytometry	Interpreted as Negative and Positive	NA

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31.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD15	Flow Cytometry	Interpreted as Negative and Positive	NA
32.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD33	Flow Cytometry	Interpreted as Negative and Positive	NA
33.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	MPO	Flow Cytometry	Interpreted as Negative and Positive	NA
34.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD 41	Flow Cytometry	Interpreted as Negative and Positive	NA
35.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	HLA DR	Flow Cytometry	Interpreted as Negative and Positive	NA
36.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD34	Flow Cytometry	Interpreted as Negative and Positive	NA

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37.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	Anti AMPO	Flow Cytometry	Interpreted as Negative and Positive	NA
38.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	FMC7	Flow Cytometry	Interpreted as Negative and Positive	NA
39.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD 23	Flow Cytometry	Interpreted as Negative and Positive	NA
40.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	CD 38	Flow Cytometry	Interpreted as Negative and Positive	NA
41.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	Anti kappa	Flow Cytometry	Interpreted as Negative and Positive	NA
42.	EDTA BLOOD, BONE MARROW, BODY FLUIDS	Anti lambda	Flow Cytometry	Interpreted as Negative and Positive	NA

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43.	<b>EDTA BLOOD, BONE MARROW, BODY FLUIDS</b>	Anti TDT	Flow Cytometry	Interpreted as Negative and Positive	NA
44.	<b>BONE MARROW</b>	Bone Marrow Aspiration Report	Microscopic Examination	NA	NA
<b>IV. <u>MICROBIOLOGY &amp; SEROLOGY</u></b>					
1.	<b>BLOOD, BODY FLUIDS, TISSUE , PUS</b>	MTB- PCR (MTC)	Real Time Polymerase Chain Reaction	Detectable/Not Detectable	NA
2.	<b>BLOOD</b>	HIV 1 Quantitative PCR	Real Time Polymerase Chain Reaction	70 - 25000000 IU/ml	8.2
<b><u>TORCH GROUP</u></b>					
3.	<b>SERUM</b>	Toxoplasma IgM	Chemiluminescence	Interpreted as positive or negative as compared with index	12.2
4.	<b>SERUM</b>	Toxoplasma IgG	Chemiluminescence	Interpreted as positive or negative as compared with index	9.6
5.	<b>SERUM</b>	Rubella IgM	Chemiluminescence	Interpreted as positive or negative as compared with index	14.8

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6.	SERUM	Rubella IgG	Chemiluminescence	Interpreted as positive or negative as compared with index	7.9
7.	SERUM	CMV IgM	Chemiluminescence	Interpreted as positive or negative as compared with index	10.2
8.	SERUM	CMV IgG	Chemiluminescence	Interpreted as positive or negative as compared with index	9.3
9.	SERUM	Herpes Simplex IgM I & II	Enzyme Linked Immunosorbent Assay	Interpreted as positive or negative as compared with cutoff absorbance	10.7
10.	SERUM	Herpes Simplex IgG I & II	Enzyme Linked Immunosorbent Assay	Interpreted as positive or negative as compared with cutoff absorbance	8.8
11.	SERUM	Dengue IgG / IgM	Rapid Test	Interpreted as positive or negative	NA
12.	SERUM	Rheumatoid Arthritis Factor (RA)	Slide Agglutination	Interpreted as absolute value. Linear Upto 256 IU/mL. If positive titre is mentioned	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
13.	SERUM	C-Reactive Protein	Slide Agglutination	Interpreted as absolute value. Linear Upto 6 mg/L. If positive titre is mentioned	NA
<b><u>AUTOIMMUNE TESTS</u></b>					
14.	SERUM	Anti Nuclear Antibody (ANA)	Enzyme Linked Immunosorbent Assay	Interpreted as positive or negative	10.8
<b><u>VIRAL MARKERS</u></b>					
<b><u>HEPATITIS MARKERS</u></b>					
15.	SERUM	Hepatitis B surface antigen (Hbs Ag)	Enzyme Linked Immunosorbent Assay	Interpreted as positive or negative as compared with cutoff absorbance	11.5
16.	SERUM	Anti HAV IgM	Chemiluminescence	Interpreted as positive or negative as compared with cutoff absorbance	7.6
17.	SERUM	Anti HBc IgM	Chemiluminescence	Interpreted as positive or negative as compared with cutoff absorbance	6.8
18.	SERUM	Hepatitis B Envelope Antigen (Hbe Ag)	Chemiluminescence	Interpreted as positive or negative as compared with cutoff absorbance	7.3

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
19.	SERUM	Anti HBc Total	Chemiluminescence	Interpreted as positive or negative as compared with cutoff absorbance	10.5
20.	SERUM	Anti Hbe	Chemiluminescence	Interpreted as positive or negative as compared with cutoff absorbance	8.9
21.	SERUM	Anti HBs Total	Chemiluminescence	Interpreted as positive or negative as compared with cutoff absorbance	11.3
22.	SERUM	Anti HEV IgM	Enzyme Linked Immunosorbent Assay	Interpreted as positive or negative as compared with cutoff absorbance	7.6
23.	SERUM	Anti HCV	Tridot Method	Interpreted as positive or negative	NA
24.	SERUM	HCV ELISA	Enzyme Linked Immunosorbent Assay	Interpreted as positive or negative as compared with cutoff absorbance	11.3
25.	SERUM	Western Blot for HIV I and HIV II	Blot Method	Interpreted as Detected or not detected as per CDC criteria	NA

-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-

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