

Laboratory	New Civil Hospital Surat Laboratory Services, Department of Pathology, Government Medical College and New Civil Hospital, Majura Gate, Surat, Gujarat		
Accreditation Standard	ISO 15189:2012		
Field	Medical Testing	Issue Date	31.10.2014
Certificate Number	M-0450	Valid Until	30.10.2016
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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
I.	<u>CLINICAL BIOCHEMISTRY</u>				
1.	SERUM	Glucose	GOD-POD End point	500 mg/dl	2.5
2.	SERUM	Creatinine	Jaffe two point	20 mg/dl	4.9
3.	SERUM	Urea	Urease GLDH	0-250 mg/dl	5.8
4.	SERUM	Bilirubin Direct	Diazo reaction in 50 mmol/L HCl	30 mg/dl	11.9
5.	SERUM	Bilirubin Total	Diazo reaction in Caffeine	30 mg/dl	4.5
6.	SERUM	Billirubin Indirect	calculation	NA	NA
7.	SERUM	Triglycerides	Lipase GHO-POD	0-1000 mg/dl	3.2
8.	SERUM	Albumin	BCG	4.7 gm/dl	2.5
9.	SERUM	Cholesterol Total	CHOD-POD	730 mg/dl	2.4
10.	SERUM	Alkaline Phosphatase	PnPP with AMP buffer	2000 IU/L	6.7
11.	SERUM	Total Protein	Biuret	15 gm/dl	2.6
12.	SERUM	Calcium	Arsenazo III	20 mg/dl	2.6
13.	SERUM	Uric Acid	Uricase POD	0-20 mg/dl	3.2

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14.	SERUM	Amylase	CNPG	0-1500 mg/dl	6.9
15.	SERUM	HDL-Cholesterol	Dextran sulphate – Mg ²⁺ precipitation	100 mg/dl	8.8
16.	SERUM	VLDL - Cholesterol	Calculation	NA	NA
17.	SERUM	LDL - Cholesterol	Calculation	NA	NA
18.	SERUM	Na ⁺	ISE	100-160 mmol/l	1.8
19.	SERUM	K ⁺	ISE	2-6 mmol/l	2.4
20.	SERUM	ALT	L-Alanine LDH UV Kinetic	0-500 IU/L	6.0
II. <u>CLINICAL PATHOLOGY</u>					
1.	URINE	Specific Gravity	Concentration of ions- multistrip method	1.005 -1.030	NA
		Albumin	Protein error of indicator multi strip method	Neg / Trace / +1 to +4	NA
		Glucose	GOD-POD reaction-multi strip method	Neg / Trace / +1 to +4	NA
		pH	Double indicator principle- multi strip method	5.0 - 8.5	NA

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		Ketone bodies	Rothera's test (nitroprusside reaction)- multi strip method	Absent / Present	NA
		Bile salt	Manual-hay's surface tension test	Absent / Present	NA
		Bile Pigment	Reaction of bilirubin with diazo reagent – multi strip method	Absent / Present	NA
		Occult Blood	Peroxidase like activity hb-multi stripmethod	Absent / Present	NA
		Urobilinogen	Modified ehrlich's reaction multi strip method	Absent / Present	NA
		Microscopic Examination	Microscopy	N.A	NA
2.	BODY FLUIDS (CERE-BROSPINAL FLUID, ASCITIC FLUID, PLEURAL FLUID)	Microscopy Examination	Microscopy, Modified Neubauer's Counting Chamber and Giemsa Stain	N.A	NA

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III. HAEMATOLOGY & IMMUNOHAEMATOLOGY					
1.	ANTI-COAGULATED BLOOD (EDTA)	Haemoglobin	Auto analyser (non cyanide Hb Analysis Method)	0.1-25 gm / dl	2.4
2.	ANTI-COAGULATED BLOOD (EDTA)	Total WBC count	Auto analyser (DC detection method)	0.3-99x10 ³ / µl	4.2
3.	ANTI-COAGULATED BLOOD (EDTA)	Differential WBC count Neutrophil Lymphocyte Eosinophil Basophil Monocyte /Others	Microscopy – Giemsa Satin	0-100%	NA
4.	ANTI-COAGULATED BLOOD (EDTA)	RBC count	Auto analyser (DC detection method)	0.03-7x10 ⁶ µl	2.1
5.	ANTI-COAGULATED BLOOD (EDTA)	MCV	Auto Analyser / Calculated	20-199fL	1.3
6.	ANTI-COAGULATED BLOOD (EDTA)	MCH	Auto Analyser / Calculated	10-50pg	2.2

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7.	ANTI-COAGULATED BLOOD (EDTA)	MCHC	Auto Analyser / Calculated	10-50 gm/dl	2.1
8.	ANTI-COAGULATED BLOOD (EDTA)	RDW (CV)	Auto Analyser / Calculated	0-50 %	3.0
9.	ANTI-COAGULATED BLOOD (EDTA)	HCT	Auto Analyser (Pulse Height Detection Method)	10-60%	2.2
10.	ANTI-COAGULATED BLOOD (EDTA)	Platelet count	Auto Analyser (Electrical Impedence)	10-999x 10 ³ /µl	8.9
11.	ANTI-COAGULATED BLOOD (EDTA)	PS-MP (Malarial Parasite)	Microscopy (Giemsa Stain)	Plasmodium vivax / Plasmodium falciparum / Mixed infection – Negative to 4+	NA
12.	ANTI -COAGULATED BLOOD (EDTA)	Malarial antigen detection test	Immunochromatography (HRP-2, pLDH)	Plasmodium vivax / Plasmodium falciparum / Mixed infection – Negative / Positive	NA
13.	ANTI COAGULATED BLOOD (EDTA)	Peripheral smear examination	Microscopy – Giemsa Stain	NA	NA

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14.	ANTI COAGULATED BLOOD (EDTA)	ESR	Westergren Time / Automated ESR	0-150 mm at the end of 1 st hour	NA
15.	ANTI COAGULATED BLOOD (EDTA)	Reticulocyte count	Reticulocyte Stain / Manual Microscopy	0-100%	NA
16.	BONE MARROW MATERIAL	Bone Marrow Smear Examination	Microscopy (Giemsa Stain)	NA	NA
17.	BLOOD (CITRATED PLASMA)	Prothrombin Time	Electromagnetic / Optomechanical	5-120 sec	4.8
18.	BLOOD (CITRATED PLASMA)	Activated Partial Thromboplastin Time	Electromagnetic / Optomechanical	5-120 Sec	4.9
IV. <u>MICROBIOLOGY & SEROLOGY</u>					
1.	PUS/CSF/ SWAB/ SPUTUM/ PLEURAL FLUID/ ASCITIC FLUID/ URINE	Gram stain	Microscopy	NA	NA

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2.	PUS/CSF/ SWAB/SPUTUM/ PLEURAL FLUID/ASCITIC FLUID/URINE	Acid Fast Stain	ZN stain method	Acid fast bacilli seen/ Acid fast bacilli not seen	NA
3.	URINE/ PUS/ BLOOD/ BODY FLUIDS /CSF / SWAB/ SPUTUM	Aerobic Culture and Sensitivity	Manual	Bacterial spp. Isolated/ No growth	NA
4.	URINE/ PUS/ BLOOD/ BODY FLUIDS /CSF / SWAB/ SPUTUM	Aerobic Culture and Sensitivity	Automated system	Bacterial spp. Isolated/ No growth	NA
5.	THROAT SWAB	Albert stain	Albert stain	Corynebacterium diphtheria are seen/ not seen	NA
6.	SERUM	HAV	ELISA	Positive/Negative	3.5
7.	SERUM	HAV	Rapid Immunochromatography test	Positive/Negative	NA
8.	SERUM	HBsAg	ELISA	Positive/Negative	3.9

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9.	SERUM	HBsAg	Rapid Immunochromatography test	Positive/Negative	NA
10.	SERUM	HCV	ELISA	Positive/Negative	3.5
11.	SERUM	HCV	Rapid Immunochromatography test	Positive/Negative	NA
12.	SERUM	HEV	ELISA	Positive/Negative	4.1
13.	SERUM	HEV	Rapid Immunochromatography test	Positive/Negative	NA
14.	SERUM	WIDAL Test	Tube Agglutination test	Positive/Negative followed by titre	NA
15.	SERUM	Enterocheck –WB	Rapid Immunochromatographic test	Positive/Negative	NA
16.	SERUM	RPR	Flocculation test	Reactive/Non reactive followed by titre	NA
17.	SERUM	RA	Latex Agglutination Test	Positive/Negative followed by titre	NA

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18.	SERUM	ASO	Latex Agglutination Test	Positive/Negative followed by titre	NA
19.	SERUM	CRP	Latex Agglutination Test	Positive/Negative followed by titre	NA
20.	SERUM	Antibodies to HIV	ELISA	Reactive/Non reactive	4.1
21.	SERUM	Antibodies to HIV	Rapid Dot Immuno assay test	Reactive/Non reactive	NA
22.	SERUM	Antibodies to HIV	Rapid Immunochromatography test	Reactive/Non reactive	NA
23.	SERUM	Antibodies to HIV	Rapid Immunoconcentration test	Reactive/Non reactive	NA
24.	SERUM	IgM Antibodies to Leptospira	ELISA	Positive/Negative followed by titre	6.3
25.	SERUM	MAT for Leptospira	MAT	Positive/Negative followed by titre	NA
26.	SERUM	IgM antibodies to Leptospira	Rapid Immuno-chromatography test	Positive/Negative	NA

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V. <u>HISTOPATHOLOGY</u>					
1.	SMALL, MEDIUM & LARGE TISSUES RECEIVED IN FORMALIN	Grossing Decalcification, Processing, Paraffin embedding Microtomy H& E Staining (Conventional)	Light Microscopy with Interpretation	Descriptive	NA
2.	SLIDES FOR SECOND OPINION	Stained / Unstained slides	Light Microscopy with Interpretation	Descriptive	NA
3.	PARAFFIN BLOCKS FOR SECOND OPINION	Microtomy H& E Staining (Conventional)	Light Microscopy with Interpretation	Descriptive	NA
4.	TISSUE/ PARAFFIN BLOCK/ UNSTAINED SLIDE	PAS stain (Periodic Acid Schiff)	Light Microscopy with Interpretation	Descriptive	NA
5.	TISSUE/ PARAFFIN BLOCK/ UNSTAINED SLIDE	Reticulin stain (Gordan and Sweet's method)	Light Microscopy with Interpretation	Descriptive	NA

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6.	TISSUE/ PARAFFIN BLOCK/ UNSTAINED SLIDE	Perl's Prussian blue stain, for Iron	Light Microscopy with Interpretation	Descriptive	NA
7.	TISSUE/ PARAFFIN BLOCK/ UNSTAINED SLIDE	ZN (Ziehl Neelsen) stain for AFB	Light Microscopy with Interpretation	Positive / Negative	NA
8.	TISSUE/ PARAFFIN BLOCK/ UNSTAINED SLIDE	Masson Trichrome stain	Light Microscopy with Interpretation	Descriptive	NA
9.	TISSUE/ PARAFFIN BLOCK/ UNSTAINED SLIDE	Grocott Methanamine silver stain	Light Microscopy with Interpretation	Positive / Negative	NA
10.	TISSUE/ PARAFFIN BLOCK/ UNSTAINED SLIDE	Alcian blue stain	Light Microscopy with Interpretation	Descriptive	NA

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11.	TISSUE/ PARAFFIN BLOCK/ UNSTAINED SLIDE	Toluidine blue stain	Light Microscopy with Interpretation	Descriptive	NA
12.	TISSUE/ PARAFFIN BLOCK/ UNSTAINED SLIDE	Giemsa stain (May Gruwald Giemsa)	Light Microscopy with Interpretation	Descriptive	NA
13.	TISSUE RECEIVED IN NORMAL SALINE	Grossing – Processing & section cutting in cryostat H& E Staining	Light Microscopy with Interpretation	Descriptive	NA
VI. <u>CYTOPATHOLOGY</u>					
1.	PALPABLE OR NON PALPABLE LESION INVOLVING ANY ORGAN	FNA, smear preparation, Pap, H&E and MGG Staining	Light Microscopy with Interpretation	Descriptive	NA
2.	BODY FLUIDS (ASCITIC, PLEURAL, CSF, SYNOVIAL, PUS, URINE,	Cytospin / Centrifugation, Smear Preparation, Pap, H&E and MGG staining	Light Microscopy with Interpretation	Descriptive	NA

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	BAL FLUID, ET SECRETIONS, NIPPLE DISCHARGE)				
3.	SCRAPINGS / BRUSHINGS (GIT, BRONCHIAL, ORAL)	PAP, H&E stain, MGG stain	Light Microscopy with Interpretation	Descriptive	NA
4.	CERVICAL AND VAGINAL SMEARS (CONVENTIONAL)	PAP stain	Light Microscopy with Interpretation	Descriptive	NA

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