



NABL

National Accreditation Board for Testing and Calibration Laboratories

(An Autonomous Body under Department of Science & Technology, Govt. of India)

CERTIFICATE OF ACCREDITATION

PSG HOSPITALS DIAGNOSTIC CENTRE

has been assessed and accredited in accordance with the standard

ISO 15189:2012

"Medical laboratories - Requirements for quality and competence"

for its facilities at

Avinashi Road, Peelamedu, Coimbatore, Tamil Nadu

in the field of

MEDICAL TESTING

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Certificate Number M-0129

Issue Date 18/06/2016



Valid Until 17/06/2018

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the additional requirements of NABL.

Signed for and on behalf of NABL

Dr. Vandana Jain
Program Manager

Anil Relia
Director

Prof. S.K. Joshi
Chairman



रा.प्र.प्र.बो.

राष्ट्रीय परीक्षण और अंशशोधन प्रयोगशाला प्रत्यायन बोर्ड

(विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार के अधीन स्वायत्तशासी निकाय)

प्रत्यायन प्रमाण-पत्र

पी एस जी हॉस्पिटल्स डॉयग्नोस्टिक सेंटर

का मूल्यांकन और प्रत्यायन निम्न मानक के अनुसार

आई.एस.ओ. 15189:2012

“चिकित्सा प्रयोगशालाएँ-गुणवत्ता और सक्षमता की आवश्यकताएँ”

कोयंबटूर, तमिलनाडु

में स्थित इसकी सुविधाओं के लिए

चिकित्सीय परीक्षण

के क्षेत्र में किया गया।

(इस प्रयोगशाला के प्रत्यायन के क्षेत्र की जानकारी एन ए बी एल वेबसाइट www.nabl-india.org से भी प्राप्त कर सकते हैं)

प्रमाण-पत्र संख्या चि-0129

जारी करने की तिथि 18/06/2016



वैधता की तिथि 17/06/2018

यह प्रमाण-पत्र उपर्युक्त मानक तथा राष्ट्रीय परीक्षण और अंशशोधन प्रयोगशाला प्रत्यायन बोर्ड की अतिरिक्त अपेक्षाओं का निरंतर संतोषप्रद अनुपालन किए जाने पर अनुबंध में निर्दिष्टानुसार प्रत्यायन के क्षेत्र के लिए वैध रहेगा।

रा.प्र.प्र.बो. की ओर से हस्ताक्षरित

वंदना जैन

डॉ. वंदना जैन
कार्यक्रम प्रवन्धक

अनिल रेलिया

अनिल रेलिया
निदेशक

श्रीकृष्ण जोशी

प्रो. श्रीकृष्ण जोशी
अध्यक्ष



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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 / PLEURAL / ASCITIC / CERE-BROSPINAL FLUID (CSF)	ADA	Enzymatic, Kinetic	1 – 200 U/L	4.3
2.	SERUM	Albumin	BCG, Endpoint	0.20 – 6 g/dL	3.0
3.	URINE	Albumin	Immunoturbidimetry	0.3 – 21 mg/dL	3.9
4.	SERUM	Alkaline Phosphatase	PNPP hydrolysis, AMP buffer IFCC, Kinetic	2 - 1200 U/L	3.0
5.	SERUM	ALT	IFCC, UV, Kinetic, without P5P	1.0 - 700 U/L	3.6
6.	PLASMA	Ammonia	Enzymatic with Glutamate Dehydrogenase; End Point	14 – 1192 µg/dL	7.9
7.	SERUM / ASCITIC / PLEURAL FLUID	Amylase	5 Ethylidene - G-7- PNP, Kinetic	3.0 - 2000 U/L	1.8
8.	SERUM	AST	IFCC, UV, Kinetic without P5P	1.0 – 700 U/L	2.9

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9.	SERUM / BLOOD (HEPARINISED)	Bicarbonate	Calculation	NA	NA
10.	SERUM	Bilirubin - Direct	Diazo, Endpoint	0.05 - 25 mg/dL	4.3
11.	SERUM	Bilirubin - Total	Diazo, Endpoint	0.063 - 20 mg/dL	3.0
12.	BLOOD (HEPARINISED)	Arterial Blood Gas Analysis (ABG)	ISE, Potentiometry, Direct pH pCO ₂ pO ₂	6 - 8 4 - 200 mm Hg 0 - 800 mm Hg	0.1 4.0 13.5
13.	SERUM	Calcium	BAPTA, Endpoint	0.04 - 20 mg/dL	3.1
	URINE			0.04 - 28 mg/dL	2.1
14.	SERUM	Ceruloplasmin	Immunoturbidimetry	1.7 - 140 mg/dL	8.8
15.	SERUM/ BLOOD (HEPARINISED)	Chloride	ISE, Direct	2 - 250 m Eq/L	3.1
16.	URINE CSF	Chloride	ISE, Indirect	20 - 250 m Eq/L	2.6 1.7
17.	SERUM	Cholesterol - HDL	Enzymatic, endpoint after complexing LDL, VLDL, CM with MgSO ₄ & dextran sulfate	3.0 - 120 mg/dL	4.0

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18.	SERUM	Cholesterol – LDL	Enzymatic, Endpoint after Selective Micellary Solubilisation of LDL Cholesterol	3.87 - 550 mg/dL	4.0
19.	SERUM/ ASCITIC/ PLEURAL FLUID	Cholesterol - Total	Enzymatic, Endpoint	0.1 - 800 mg/dL	2.0
20.	SERUM	Creatinine	Enzymatic	0.03 - 30.5mg/dL	2.1
	URINE			0.31 - 367 mg/dL	2.6
21.	SERUM/ URINE	Creatinine Clearance	Calculation	NA	NA
22.	SERUM	Creatine Kinase - Total (NAC)	UV, IFCC	3 - 2000 U/L	1.9
23.	SERUM	C3	Immunoturbidimetry	30 - 500 mg/dL	5.8
24.	SERUM	C4	Immunoturbidimetry	4 - 100 mg/dL	2.7
25.	HEPARINISED PLASMA	D-Dimer	Particle Enhanced Immunoturbidimetric Assay	0.15 - 9.0 µg FEU/mL	6.0
26.	SERUM	γ-Glutamyl transferase	Kinetic, IFCC	2 - 1200 U/L	2.5

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
27.	PLASMA (F / EDTA) / ASCITIC / PLEURAL / SYNOVIAL FLUID	Glucose	Hexokinase, UV, Kinetic	0.8 - 720 mg/dL	3.8
	CSF				2.4
	URINE				2.3
28.	BLOOD (EDTA)	Hb A1c	Immunoturbidimetry	3 - 28 %	3.5
			HPLC, NGSP	3.8 - 18.5 %	4.3
29.	SERUM	High Sensitivity CRP (hs CRP)	Immunoturbidimetry	0.01 - 2.0 mg/dL	3.3
30.	PLASMA	Homocysteine	UV, 2 Point End	< 15 µmol/L	5.0
31.	BLOOD (EDTA)	Haemoglobin Electrophoresis	Cellulose Acetate (Fully Automated)	NA	NA
32.	SERUM	Haptoglobin	Immunoturbidimetry	10 - 514 mg/ dL	7.8
33.	SERUM	IgA	Immunoturbidimetry	0.45 - 7.3 g/L	2.3
34.	SERUM	IgG	Immunoturbidimetry	2.3 - 37.2 g/L	1.8

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
35.	SERUM	IgM	Immunoturbidimetry	0.16 – 5.18 g/L	3.7
36.	SERUM / BLOOD (HEPARINISED)	Ionised Calcium	ISE, Direct	0.1 - 4.0 mmol/L	3.1
37.	SERUM	Iron	Guanidine / FerroZine, Endpoint	1.3 - 839 g/dL	7.3
38.	BLOOD (HEPARINISED)	Lactate	Lactate Oxidase, Amperometry	0.4 - 19.0 mmol/L	6.5
39.	SERUM/ ASCITIC/ PLEURAL FLUID	LDH	UV, Kinetic, IFCC Lactate to Pyruvate	5 – 1000 U/L	2.0
40.	SERUM	Lipase	Kinetic, Colorimetry	0.5 - 300 U/L	3.3
41.	SERUM	Lithium	ISE Direct	0.1 – 6.0 mEq/L	4.1
42.	SERUM	Magnesium	Xylidylblue, Endpoint	0.19 – 5.0 mEq/L	2.0
	URINE			0.19 – 5.0 mEq/L	3.0
43.	SERUM / URINE	Osmolarity	Calculation	NA	NA

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44.	SERUM	Osmolality	Freezing Point	0 upto 3000 mOsmol/kg water	4.2
	URINE		Freezing Point	0 upto 3000 mOsmol/kg water	2.6
45.	SERUM	Phosphorus	Ammonium Molybdate, UV, Endpoint	0.65 - 20 mg/dL	1.8
	URINE			3.41 - 285 mg/dL	3.8
46.	URINE	Protein	Turbidimetry	4 - 200 mg/dL	1.7
	CSF				1.5
47.	SERUM/ BLOOD (HEPARINISED)	Potassium	ISE, Direct / ISE, Indirect	0.2 - 20 mEq/L	1.1 1.7
	URINE		ISE, Indirect	0.2 - 300 mEq/L	5.4
48.	SERUM/ ASCITIC/ PLEURAL/ SYNOVIAL FLUID	Protein - Total	Biuret, Endpoint	0.2 - 12 g/dL	2.3
49.	SERUM	Protein Electrophoresis	Cellulose Acetate (Fully Automated)	NA	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
50.	SERUM	Pseudo Cholinesterase	Hydrolysis of S-butryl thiocholine iodide, kinetic	4.5 - 25000 U/L	2.2
51.	SERUM/ BLOOD (HEPARINISED)	Sodium	ISE, Direct	20 - 250 mEq/L	1.2
			ISE, Indirect		1.4
			ISE, Indirect	10 - 300 mEq/L	2.8
52.	SERUM	Triglycerides	Enzymatic, Endpoint	3.5 - 885 mg/dL	2.6
53.	SERUM	Unsaturated Iron Binding Capacity	FerroZine, Endpoint	23.5 - 700 µg/dL	14.1
54.	SERUM	Urea	Urease, UV, Kinetic	1.8 - 240 mg/dL	3.4
	URINE			2.8 - 5600 mg/dL	5.5
55.	URINE	Urea Clearance	Calculation	NA	NA
56.	SERUM	Uric Acid	Uricase, Endpoint	0.20 - 25 mg/dL	2.0
	URINE			2.2 - 269 mg/dL	5.5
57.	SERUM	α - feto Protein	Electrochemiluminescence	0.4 - 1000 IU/mL	4.8
58.	SERUM	Anti TPO Antibodies	Electrochemiluminescence	5.00 - 600 IU/mL	14.1

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
59.	SERUM	CA 125	Electrochemiluminescence	0.600 – 5000 U/mL	8.5
60.	SERUM	CA 19.9	Electrochemiluminescence	0.600 – 1000 U/mL	6.7
61.	SERUM	CEA	Electrochemiluminescence	0.200 – 100 ng/mL	3.6
62.	SERUM	Cortisol	Electrochemiluminescence	0.018 - 63 µg/dL	9.0
63.	SERUM/ PLASMA (EDTA)	Creatine Kinase – MB	Electrochemiluminescence	0.1 - 500 ng/mL	9.5
64.	SERUM	Ferritin	Electrochemiluminescence	0.5 - 2000 ng/mL	5.3
65.	SERUM	Folate	Electrochemiluminescence	0.640 – 20 ng/mL	10.8
66.	SERUM	FSH	Electrochemiluminescence	0.100 – 200 mIU/mL	3.6
67.	SERUM	FT ₃	Electrochemiluminescence	0.260 - 32.55 pg/mL	3.6
68.	SERUM	FT ₄	Electrochemiluminescence	0.023 - 7.7 ng/dL	4.7
69.	SERUM	Free β hCG	Electrochemiluminescence	0.1 – 190 mIU/mL	8.0
70.	SERUM	Human Chorionic Gonadotropin	Electrochemiluminescence	0.1 - 10000 mIU/mL	7.8
71.	SERUM	IgE	Electrochemiluminescence	0.100 - 2500 IU/mL	3.8

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
72.	SERUM	Insulin	Electrochemiluminescence	0.200 – 1000 μ U/mL	8.0
73.	SERUM	IL - 6	Electrochemiluminescence	1.5 – 5000 pg/mL	5.2
74.	SERUM	LH	Electrochemiluminescence	0.100 – 200 mIU/mL	4.3
75.	SERUM	Procalcitonin	Electrochemiluminescence	0.02 – 100 ng/mL	5.0
76.	SERUM	Prolactin	Electrochemiluminescence	1 – 10000 μ IU/mL	6.6
77.	SERUM/ PLASMA (HEPARIN)	ProBNP	Electrochemiluminescence	05 – 35000 pg/mL	2.8
78.	SERUM	PAPP-A	Electrochemiluminescence	04 – 10000 mIU/L	14.5
79.	SERUM	Intact PTH	Electrochemiluminescence	1.20 - 5000 pg/mL	4.9
80.	SERUM	Total PSA	Electrochemiluminescence	0.006 - 100 ng/mL	2.7
81.	PLASMA (EDTA)	hs Troponin - T	Electrochemiluminescence	0.010 - 25 ng/mL	3.3
82.	SERUM	TSH	Electrochemiluminescence	0.005 - 100 μ IU/mL	6.7
83.	SERUM	T3	Electrochemiluminescence	0.195 - 6.51 ng/mL	4.9
84.	SERUM	Total Testosterone	Electrochemiluminescence	0.025 - 15.0 ng/mL	3.4

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
85.	SERUM	Vitamin B12	Electrochemiluminescence	30 – 2000 pg/mL	8.3
86.	SERUM	25-Hydroxy Vitamin D Total	Electrochemiluminescence	3 - 70 ng/mL	13.3
II.	CLINICAL PATHOLOGY				
1.	BODY FLUIDS: ASCITIC PLEURAL CERE-BROSPINAL PERICARDIAL SYNOVIAL	Total Count, Differential Count	Microscopy	NA	NA
2.	BILE	Microlith Examination	Microscopy	NA	NA
3.	SEMEN	Semen Analysis	Physical, Chemical and Microscopic Examination	NA	NA
		Fructose	Seliwanoff's Test	NA	NA
4.	STOOL	Fat Globules	Microscopy	NA	NA
5.	STOOL	Occult Blood	Standard Guaiac Method by a Rapid Card Test	Qualitative Test	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
6.	STOOL	pH	Detection of double indicators by Reflectance Photometry	5 - 9	NA
7.	STOOL	Benedicts Test	Reduction of copper sulphate by reducing substances	NA	NA
8.	URINE	Clarity	Visual	NA	NA
9.	URINE	Color	Visual	NA	NA
10.	URINE	Specific Gravity	Detection of pKa change of polyelectrolytes by Reflectance Photometry / manually	1 - 1.030	1.2
11.	URINE	pH	Detection of double indicators by Reflectance Photometry / manually	5 - 8.5	0.8
12.	URINE	Bilirubin	Detection of reaction with diazotized dichlorobenzene by Reflectance Photometry / manually	Negative or Positive	NA
13.	URINE	Blood	Detection of peroxidase-like activity of hemoglobin by reflectance photometry / manually	Negative to 3+	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
14.	URINE	Glucose	Detection of double sequential enzyme reaction by reflectance photometry / manually	Negative to 4+	NA
15.	URINE	Ketones	Detection of nitroprusside reaction by reflectance photometry/ manually	Negative or Positive	NA
16.	URINE	Leukocytes	Detection of neutrophilic esterases by reflectance photometry/ manually	Negative to 3+	NA
17.	URINE	Nitrite	Detection of diazonium compound by Reflectance Photometry/ Manually	Negative or Positive	NA
18.	URINE	Proteins	Detection of protein-error of pH indicators by reflectance photometry/ manually	Negative to 4+	NA
19.	URINE	Urobilinogen	Detection of Ehrlich's Aldehyde Reaction by reflectance photometry/ manually	Negative to 3+	NA
20.	URINE	Bile Salts	Surface Tension Method by Hay's Test	Negative to 3+	NA

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21.	URINE	Red Blood Cells	Flowing Microscopy Imaging System / Manual Microscopy	0 to plenty / HPF	NA
22.	URINE	White Blood Cells	Flowing Microscopy Imaging System / Manual Microscopy	0 to plenty / HPF	NA
23.	URINE	Epithelial Cells	Flowing Microscopy Imaging System / Manual Microscopy	0 to plenty / HPF	NA
24.	URINE	Casts	Manual Microscopy	Present / Absent	NA
25.	URINE	Crystals	Manual Microscopy	Present / Absent	NA
26.	URINE	Haemosiderinuria	Microscopy - Perl's Prussian Blue Staining	Present / Absent	NA
27.	URINE	Benedicts Test	Reduction of copper sulphate by reducing substances	Present / Absent	NA
28.	URINE	Fat Globules	Microscopy	Present / Absent	NA
29.	URINE	Pregnancy Test	Immunochromatographic Method	Negative or Positive	NA

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III. HAEMATOLOGY & IMMUNOHAEMATOLOGY					
1.	BLOOD	RBC Count	Coulter Principle	0.00 - 8.00 x 10 ⁶ cells/ μ l	3.1
2.	BLOOD	RBC Count	Sheath Flow Impedance Technology	0.00 - 6.00 x 10 ⁶ cells/ μ l	4.1
3.	BLOOD	Haemoglobin	Measurement of absorbance of cyanmethemoglobin by photometry	0 - 25 g/dl	4.3
4.	BLOOD	Haemoglobin	Sodium Lauryl Sulfate Method	0 - 20 g/dl	5.3
5.	BLOOD	Haematocrit	Calculated Parameter	NA	3.0
6.	BLOOD	Mean Cell Volume	Derived parameter from RBC Histogram	0 - 150 fL	2.3
7.	BLOOD	Mean Cell Haemoglobin	Calculated Parameter	NA	2.9
8.	BLOOD	Mean Cell Haemoglobin Concentration	Calculated Parameter	NA	2.8
9.	BLOOD	Red Cell Distribution Width (RDW)	Derived from RBC Histogram	NA	2.6
10.	BLOOD	WBC Count	Coulter Principle	0.0 - 400 x 10 ³ cells/ μ l	4.7

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
11.	BLOOD	WBC Count	Flow Cytometry	0.0 - 300 x 10 ³ cells/ μ l	3.1
12.	BLOOD	Differential Count – Neutrophil Lymphocyte Monocyte Eosinophil Basophil	VCS technology in cell counter and /or manual	0 – 100 %	2.3 4.2 7.5 11.2
13.	BLOOD	Differential Count – Neutrophil Lymphocyte Monocyte Eosinophil Basophil	Flow cytometry	0 – 100 %	1.8 4.4 6.8 8.2
14.	BLOOD	Absolute Neutrophil Count	VCS technology in Cell Counter	0.0 - 400 x 10 ³ cells/ μ l	5.1
15.	BLOOD	Absolute Neutrophil Count	Flow Cytometry	0.0 - 400 x 10 ³ cells/ μ l	2.4
16.	BLOOD	Absolute Eosinophil Count	VCS technology in Cell Counter	0.0 - 400 x 10 ³ cells/ μ l	12.6
17.	BLOOD	Absolute Eosinophil Count	Flow cytometry	0.0 - 400 x 10 ³ cells/ μ l	6.9
18.	BLOOD	Absolute Monocyte Count	VCS technology in Cell Counter	0.0 - 400 x 10 ³ cells/ μ l	7.9

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19.	BLOOD	Absolute Monocyte Count	Flow Cytometry	0.0 - 400 x 10 ³ cells/ μ l	7.7
20.	BLOOD	Absolute Lymphocyte Count	VCS technology in Cell Counter	0.0 - 400 x 10 ³ cells/ μ l	5.6
21.	BLOOD	Absolute Lymphocyte Count	Flow Cytometry	0.0 - 400 x 10 ³ cells/ μ l	4.7
22.	BLOOD	Platelet Count	Derived from platelet histogram obtained by Coulter Principle	0.0 - 3000 x 10 ³ cells/ μ l	4.7
23.	BLOOD	Platelet Count	Sheath flow Impedance Technology	0.0 - 1000 x 10 ³ cells/ μ l	4.0
24.	BLOOD	Mean Platelet Volume	Derived parameter from Platelet Histogram	NA	2.9
25.	BLOOD	Erythrocyte Sedimentation Rate (ESR)	Modified Westergren Method	1mm - 140 mm /hr	7.2
26.	BLOOD	Reticulocyte Count	Quantitative Test - Microscopy (Supravital Stain)	0 - 100	NA
27.	BLOOD	Peripheral Smear	Leishman Stained Thin Smear	NA	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
28.	BLOOD	Demonstration of Malarial Parasite	Thin smear using Leishman Stain	NA	NA
29.	BLOOD	Demonstration of Malarial Parasite	Immunochromatographic Method	NA	NA
30.	BLOOD	Demonstration of Microfilaria	Microscopy	NA	NA
31.	BLOOD	Detection of Sickle Haemoglobin (Qualitative)	Hemoglobin Solubility Screening Test	NA	NA
32.	BLOOD	Bone Marrow Aspiration Examination	Giemsa Stain	NA	NA
33.	PLASMA	Activated Partial Thromboplastin Time	Photo - Optical Detection of Clot	2 - 120 sec	5.5
34.	PLASMA	Prothrombin Time with INR	Photo - Optical Detection of Clot	2 - 120 sec	6.3
35.	PLASMA	DRVVT (Screen & Confirm)	Electromechanical Clot Detection	2 - 120 sec	10.9
36.	PLASMA	Anti - Cardiolipin Antibody- IgG	ELISA Based Immunoassay	>0.8 – 120 PL-IgG-U/ml	2.2

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37.	PLASMA	Anti - Cardiolipin Antibody - IgM	ELISA Based Immunoassay	>1.6 – 120 PL-IgM- U/ml	3
38.	PLASMA	Anti Beta 2 glycoprotein antibody – IgG	ELISA Based Immunoassay	>1.8 – 200 IgG RU/ml	0.6
39.	PLASMA	Anti Beta 2 glycoprotein antibody – IgM	ELISA Based Immunoassay	>0.8 – 200 IgG RU/ml	2.3
IV. MICROBIOLOGY & SEROLOGY					
1.	A. PUS, SPUTUM, STOOL, TISSUE STERILE BODY FLUIDS - ASCITIC FLUID, CSF, PLEURAL FLUID, PERITONEAL FLUID, SYNOVIAL FLUID, PERICARDIAL FLUID B. WOUND SWAB, THROAT SWAB, NASAL SWAB	Aerobic culture and antimicrobial susceptibility testing by a. Conventional Methods b. VITEK 2 (Automated)	Qualitative: Aerobic culture on appropriate media and biochemical ID a. Conventional b. Automated (Vitek) c. AST- Conventional disc diffusion (Kirby Bauer method)) MIC by VITEK (Automated)	No Growth / Growth If growth: ID up to species level ABST as appropriate based on zone sizes or MIC determination by VITEK	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
2.	BAL, TRACHEAL ASPIRATE, CVP TIP, URINE	Aerobic culture, Identification & Antimicrobial Susceptibility by a. Conventional Methods b. VITEK 2 (Automated)	Semi - quantitative : standard calibrated loop technique Aerobic culture on appropriate media and biochemical ID a. Conventional b. Automated (Vitek) c. AST- Conventional disc diffusion (Kirby Bauer method) MIC by VITEK (Automated)	No Growth/ Growth If growth: Colony Counts ID up to species level ABST as appropriate based on zone sizes or MIC determination by VITEK	NA
3.	BLOOD , BONE MARROW	Aerobic culture, Identification & Antimicrobial Susceptibility by a. Conventional methods b. VITEK 2 (Automated)	Qualitative Aerobic Culture on appropriate media and biochemical ID a. Conventional b. Automated (Vitek) c. AST- Conventional disc diffusion (Kirby Bauer method) MIC by VITEK (Automated)	No Growth/ Growth If growth: ID up to species level ABST as appropriate based on zone sizes or MIC determination by VITEK	NA
4.	SPUTUM, BRONCHIAL WASHINGS, BRONCHO - ALVEOLAR	Modified Ziehl Neelsen Staining (Cold staining) for Nocardia Sp	Staining and Microscopy	Positive – Acid fast branching filamentous bacteria seen Negative	NA

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5.	FLUID, PUS ASPIRATE, PLEURAL FLUID, PERITONEAL FLUID, SYNOVIAL FLUID, PERICARDIAL FLUID A. PUS, WOUND SWAB, STOOL, THROAT SWAB, ASCITIC FLUID, CSF, PLEURAL FLUID, PERITONEAL FLUID, SYNOVIAL FLUID, PERICARDIAL FLUID, NASAL SWAB, BAL, TISSUE	Gram Stain	Staining and Microscopy	Pus cells – seen/not seen Bacteria- Seen/not seen If seen, Morphology description (Gram positive/negative, cocci/bacilli with their arrangement) Pus cells and epithelial cells per high power field (HPF)	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
	B. SPUTUM, ENDO-TRACHEAL SECRETIONS & TRACHEAL ASPIRATE,		Semi - Quantitative	Bacteria - Seen/not seen If seen, Morphology description (Gram positive/negative, cocci/bacilli with their arrangement)	
6.	SERUM	ASO Titre	Nephelometry	Positive (Adult ≥ 200 IU/ml Pediatric: ≥ 333 IU/ml) Range: 200-4000 IU/ml or Negative	20.0
7.	SERUM	ASO Titre	Latex Agglutination	Positive (Adult ≥ 200 IU/ml Pediatric: ≥ 333 IU/ml) or Negative	NA
8.	SERUM	Anti HAV IgM	Chemiluminescence Micro Particle Assay (Abbott Architect)	>1.1- Positive 0.8-1.1 - Indeterminate < 0.8 - Negative	14.9
9.	SERUM	Anti HEV IgM	ELISA	Cut off = N.C + 0.2 Positive $\geq$ Cut-off Negative < Cut-off	15.6
10.	SERUM	Anti Dengue IgM	ELISA	Positive ≥ 11 PanBio Units Equivocal 9-11 PanBio U Negative < 9 PanBio U	13.6

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
11.	SERUM	Anti Dengue IgG	ELISA	Positive ≥ 22 PanBio Units Equivocal 18-22 PanBio U Negative < 18 PanBio U	15.9
12.	SERUM	Widal Test	Tube Agglutination	Significant or Not significant Titres SO $\geq 1:80$ SH $\geq 1:160$ AH $\geq 1:160$ BH $\geq 1:160$ is considered significant Range of titres 1: 20 to 1:640	NA
13.	SERUM	Brucella Agglutination Test	Tube Agglutination	Significant or Not significant $\geq 1:160$ is considered significant Range of titres 1: 20 to 1: 640	NA
14.	SERUM	C Reactive Protein	Latex Agglutination	Positive- ≥ 0.6 mg/dl Negative < 0.6 mg/dl	NA
15.	SERUM	C Reactive Protein	Nephelometry	Positive - ≥ 0.6 mg/dl Negative < 0.6 mg/dl	17.8
16.	SERUM	HBs Ag	Chemiluminescence Micro Particle Assay (Abbott Architect)	≥ 1 - Positive < 1 - Negative	19.3

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
17.	SERUM	HBs Ag (RAPID)	Immuno - Chromatography	Positive or Negative Limit of detection - 0.5 ng/ml	NA
18.	SERUM	HIV 1 & 2 Antibodies	Chemiluminescence Micro Particle Assay (Abbott Architect)	≥ 1 - Positive < 1 - Negative	13.2
19.	SERUM	HIV 1&2 Antibodies (Rapid)	Immuno-Chromatography	Positive or Negative	NA
20.	SERUM	HIV Western Blot	Immunoblotting	Positive or Negative	NA
21.	SERUM	HCV Rapid	Immunochromatography	Positive or Negative	NA
22.	SERUM	Anti HCV Antibody	Chemiluminescence Micro Particle Assay (Abbott Architect)	≥ 1 - Positive < 1 - Negative	16.5
23.	SERUM	Rheumatoid Factor	Nephelometry	≥ 20 IU /ml - Positive	14.1
24.	SERUM	Rheumatoid factor	Latex Agglutination	Positive ≥ 10 IU/ml	NA
25.	SERUM	RPR	Slide Flocculation	Reactive or Non Reactive	NA
26.	SERUM	Weil Felix Test	Tube Agglutination	Positive or Negative	NA
27.	SERUM	ANA	ELISA	≥ 23 IU /ml - Positive Limit of detection - 6.5IU/ml	15.6

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
28.	SERUM	ds DNA	ELISA	Positive ≥ 100 IU/ml Limit of detection – 2.6 IU/ml Range: 40 – 757 IU/ml	15.7
29.	SERUM	CMV-IgM	ELISA	>1.1 - Positive 0.8 - 1.1 - Indeterminate < 0.8 - Negative	16.2
V.	HISTOPATHOLOGY				
1.	HUMAN TISSUE – BIOPSY SPECIMEN (SMALL, MEDIUM & LARGE)	Grossing Decalcification Processing, paraffin embedding, microtome H & E Staining & special stains STAINING PAS PAS with DIA Retics VVG Fites AFB GMS Grams stain VG Masson Fontana MTS Perl's staining PTAH Congo Red Rubeanic Acid Von Kossa Stain	As per in the SOP's Light Microscopy with interpretation	Descriptive	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
2.	BIOPSY WITH IMMUNO-FLUORESCENCE SKIN AND KIDNEY	Grossing Processing, Paraffin embedding, Microtome H & E Staining (Conventional) + Cryosections staining with FITC for IF	As per in the SOP's Light Microscopy + Florescent microscopy with interpretations	Descriptive	NA
3.	SLIDE & PARAFFIN BLOCK FOR SECOND OPINION	Microtomy / HNE staining	As per SOP Light Microscopy with Interpretation	Descriptive	NA
4.	CELL BLOCK PREPARATION FOR FLUIDS/ASPIRATES	Processing microtome H & E Staining (Conventional)	Light Microscopy with Interpretation	Descriptive	NA
5.	IMMUNO-HISTOCHEMISTRY / IMMUNOCYTO-CHEMISTRY	Conventional + Antigen retrieval & IHC staining Manual markers <u>Immunohistochemical markers</u> CD 3 CD 4 CD 5 CD 8 CD 10 CD 15	As per in the SOP's Light Microscopy with interpretation	Descriptive	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
		CD 20			
		CD 30			
		CD 31			
		CD 34			
		CD 45			
		CD 56			
		CD 68			
		CD 99			
		CD 117			
		CD 138			
		P 63			
		CK 5/6			
		Calcitonin			
		HEP Par I			
		Pancytokeratin			
		Cytokeratin 7			
		Cytokeratin 8			
		Cytokeratin 18			
		Cytokeratin 19			
		Cytokeratin 20			
		Epithelial Membrane			
		Antigen (EMA)			
		Epithelial Membrane			
		Antigen (CEA)			
		Anti Actin Smooth			
		Muscle (SMA)			
		Anti Human Vimentin			
		Anti Human Desmin			

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
		Anti Human Myogenin (MyF4)			
		Anti Human HMB 45			
		Anti Human Melan-A			
		Anti Human Synaptophysin			
		Anti Human Chromogranin			
		Anti Human S100 Protein			
		Anti Human Neuron Specific Enolase (NSE)			
		Anti Human TTF			
		Anti Human PSA			
		Anti Human Inhibin			
		Alpha			
		GFAP			
		PLAP			
		Calretinin			
		K i67			
		ALK / 80			
		Cyclin D1			
		MPO			
		Bcl 2 Oncoprotein			
		TDt			
		Estrogen (ER)			
		Progestron (PR)			
		Her 2 Neu			
		MYF4			

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
6.	FROZEN SECTION BIOPSY : AS ONLY REPRESENTATIVE SAMPLES ARE SENT FOR FROZEN	Grossing Processing, Microtome H & E Staining (Rapid)	As per in the SOP's Light Microscopy with interpretation	Descriptive	NA
VI. CYTOPATHOLOGY					
1.	FINE NEEDLE ASPIRATION CYTOLOGY	FNA, Smear preparation PAP and MGG Staining	As per in the SOP's Light Microscopy with interpretation	Descriptive	NA
2.	GUIDED FINE NEEDLE ASPIRATION CYTOLOGY	Cytological study	As per in the SOP's Light Microscopy with interpretation	Descriptive	NA
3.	FLUID CYTOLOGY (PLEURAL FLUID PERICARDIAL FLUID ASCITIC FLUID SYNOVIAL FLUID), PUS,	Cytospin / Centrifugation, Smear preparation, PAP and MGG staining	As per laid down SOP's Light Microscopy with interpretation	Descriptive	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
	NIPPLE DISCHARGE, CERE-BROSPINAL FLUID, URINE CYTOLOGY				
4.	BRONC-HOALVELAR LAVAGE	Cytospin / Centrifugation, Smear preparation, PAP and MGG staining	As per laid down SOP's Light Microscopy with interpretation	Descriptive	NA
5.	CERVI-COVAGINAL SMEARS	PAP stain	As per laid down SOP's Light Microscopy with interpretation	Descriptive	NA
6.	UNSTAINED SMEARS	PAP stain MGG staining	As per laid down SOP's Light Microscopy with interpretation	Descriptive	NA
7.	SCRAPINGS / BRUSHINGS (GIT, BRONCHIAL, ORAL)	PAP stain MGG staining	As per laid down SOP's Light Microscopy with interpretation	Descriptive	NA
8.	SPUTUM	PAP stain MGG staining	As per laid down SOP's Light Microscopy with interpretation	Descriptive	NA

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VII. GENETICS					
1.	BLOOD	CD4 CD8	Flow Cytometry (Immunophenotyping)	CD4: 0 – 100 % CD8: 0 – 100 %	4.5 6.0 CD3 : 4.5
2.	BLOOD	Sickle Cell Anemia	RFLP (Restriction Fragment Length Polymorphism)	Positive / Negative	NA
3.	BLOOD	Hemochromatosis	RFLP (Restriction Fragment Length Polymorphism)	Positive / Negative	NA
4.	BLOOD	MTHFR Testing	RFLP (Restriction Fragment Length Polymorphism)	Positive / Negative	NA
5.	BLOOD	Factor V Leiden	RFLP (Restriction Fragment Length Polymorphism)	Positive / Negative	NA
6.	BLOOD	Prothrombin Gene Mutation	RFLP (Restriction Fragment Length Polymorphism)	Positive / Negative	NA
7.	BLOOD	SPINK Mutation	RFLP (Restriction Fragment Length Polymorphism)	Positive / Negative	NA
8.	BLOOD	Spinal Muscular Atrophy (SPA E7)	RFLP (Restriction Fragment Length Polymorphism)	Positive / Negative	NA
9.	BLOOD	Spinal Muscular Atrophy (SPA E8)	RFLP (Restriction Fragment Length Polymorphism)	Positive / Negative	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
10.	BLOOD	Fragile X Syndrome	ITD PCR	Positive / Negative	NA
11.	BLOOD	Beta Thalassemia	ARMS PCR	Positive / Negative	NA
12.	BLOOD	Fredrich's Ataxia	ITD PCR	Positive / Negative	NA
13.	BLOOD	Huntington's Chorea	ITD PCR	Positive / Negative	NA
-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-					

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