



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

DEPARTMENT OF LABORATORY MEDICINE - DR L H HIRANANDANI HOSPITAL, FIRST FLOOR, HILLSIDE AVENUE, HIRANANDANI GARDENS, POWAI, MUMBAI, MAHARASHTRA, INDIA

**Laboratory Name :**

**Accreditation Standard** ISO 15189:2012

**Certificate Number** MC-2145

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**Validity** 23/04/2022 to 22/04/2024

**Last Amended on**

31/08/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CLINICAL BIOCHEMISTRY	EDTA Blood	Glycosylated Hemoglobin (HbA1c)	High Performance Liquid Chromatography (HPLC)
2	CLINICAL BIOCHEMISTRY	Serum	Total Iron Binding Capacity (direct-TIBC)	Chromazurol B-Vitros / Alumina Column - Starr
3	CLINICAL BIOCHEMISTRY	Serum	Vitamin D	Chemiluminescence
4	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Alanine Transaminase (ALT/ SGPT)	Kinetic with Pyridoxal Phosphate (Lactate Dehydrogenase)
5	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Albumin	BCG Binding Method
6	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Alkaline Phosphatase	p-Nitrophenyl Phosphate/AMP buffer
7	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Amylase	Chromogenic (amylopectin)
8	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Aspartate Transaminase (AST / SGOT)	Kinetic (leucodye)
9	CLINICAL BIOCHEMISTRY	Serum / Heparin plasma	Calcium	Arsenazo III dye
10	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Carcino-embryonic Antigen (CEA)	Enzyme Linked Fluorescence Assay (ELFA)
11	CLINICAL BIOCHEMISTRY	Serum / Heparin plasma	Chloride	Direct Ion Selective Electrode
12	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Conjugated Bilirubin (Bc)	Cationic mordant
13	CLINICAL BIOCHEMISTRY	Serum / Heparin plasma	Creatine Kinase (CK)	Glycerol kinase peroxidase
14	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Creatinine	Enzymatic (creatinine amidohydrolase)
15	CLINICAL BIOCHEMISTRY	Serum / Heparin plasma	Direct High Density Lipoprotein (dHDL)	PTA-MgCl <sub>2</sub>
16	CLINICAL BIOCHEMISTRY	Serum / Heparin plasma	Direct LDL(dLDL)	Enzymatic(Two Step CHE/CHO/POD )
17	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Estradiol (E2)	Enzyme Linked Fluorescence Assay (ELFA)
18	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Folic Acid/Folate	Immuno-metric Immunoassay
19	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Gamma Glutamyl Transferase (GGT)	Glycylglycine
20	CLINICAL BIOCHEMISTRY	Serum / Heparin plasma	High Sensitive C-Reactive protein (hsCRP)	Immunoturbidimetric Assay
21	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Iron (Fe)	Ferrene / Pyridyl Azo-dye
22	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Lactate Dehydrogenase (LDHi)	Pyruvate to Lactate
23	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Lipase	Leucodye, Enzymatic with Co-lipase
24	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Magnesium (Mg)	Formazan dye



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25	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Phosphorus	Phosphomolybdate reduction (PMA phenol)
26	CLINICAL BIOCHEMISTRY	Serum / Heparin plasma	Potassium	Direct Ion Selective Electrode
27	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Sodium	Direct Ion Selective Electrode
28	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Total Bilirubin (T. Bil)	Azobilirubin / dyphylline
29	CLINICAL BIOCHEMISTRY	Serum / Heparin plasma	Total Cholesterol	Enzymatic (cholesterol esterase/oxidase/peroxidase)
30	CLINICAL BIOCHEMISTRY	Serum / Heparin plasma	Total Protein	Biuret (alkaline cupric tartrate)
31	CLINICAL BIOCHEMISTRY	Serum / Heparin plasma	Triglyceride	Enzymatic with Peroxidase
32	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma	Unconjugated Bilirubin (Bu)	Cationic mordant
33	CLINICAL BIOCHEMISTRY	Serum / Heparin plasma	Urea Nitrogen (BUN)	Urease with indicator dye
34	CLINICAL BIOCHEMISTRY	Serum / Heparin plasma	Uric Acid	Uricase / Peroxidase (Colorimetric)
35	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Anti-Thyroglobulin (Anti TG)	Chemiluminescent Micro-particle Immunoassay (CMIA)
36	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Anti-TPO (Thyroid Peroxidase Autoantibodies)	Chemiluminescent Micro-particle Immunoassay (CMIA)
37	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	CA-125	Chemiluminescent Micro-particle Immunoassay (CMIA)
38	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	CA-19.9	Enzyme Linked Fluorescence Assay (ELFA)
39	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Cyclic Citrullinated Peptide antibodies (Anti-CCP)	Chemiluminescent Micro-particle Immunoassay (CMIA)
40	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Follicle Stimulating Hormone (FSH)	Immunometric Immunoassay
41	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Free Thyroxine (FT4)	Competitive Immunoassay
42	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Free Triiodothyronine (FT3)	Competitive Immunoassay
43	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	High Sensitive Troponin I(Hs-Trop I)	Chemiluminescent Micro-particle Immunoassay (CMIA)
44	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Homocysteine	Chemiluminescent Micro-particle Immunoassay (CMIA)
45	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Human Chorionic Gonadotropin - beta subunit (β-HCG)	Chemiluminescent Micro-particle Immunoassay (CMIA)
46	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Human Chorionic Gonadotropin - beta subunit(β-HCG)	Immunometric Immunoassay



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47	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Insulin	Chemiluminescent Micro-particle Immunoassay (CMIA)
48	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	iPTH (intact Para Thyroid Hormone)	Chemiluminescent Micro-particle Immunoassay (CMIA)
49	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Luteinizing Hormone (LH)	Immunometric Immunoassay
50	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Prolactin	Immunometric Immunoassay
51	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Prostate Specific Antigen (PSA)	Immunometric Immunoassay
52	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Thyroid Stimulating Hormone (TSH)	Immunometric Immunoassay
53	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Total Thyroxine (TT4)	Competitive Immunoassay
54	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Total Triiodothyronine (TT3)	Competitive Immunoassay
55	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Vitamin B12	Competitive Immunoassay
56	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / EDTA Plasma	Vitamin D	Chemiluminescent Micro-particle Immunoassay (CMIA)
57	CLINICAL BIOCHEMISTRY	Serum / Heparin plasma / EDTA plasma / Fluoride Plasma	Glucose	Glucose oxidase, colorimetric
58	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / Heparin Whole Blood	Chloride	Direct Ion Selective Electrode
59	CLINICAL BIOCHEMISTRY	Serum / Heparin plasma / Heparin Whole Blood	Ionic Calcium	Direct Ion Selective Electrode
60	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / Heparin Whole Blood	Potassium	Direct Ion Selective Electrode
61	CLINICAL BIOCHEMISTRY	Serum / Heparin Plasma / Heparin Whole Blood	Sodium	Direct Ion Selective Electrode
62	CLINICAL BIOCHEMISTRY	Serum / Lithium Heparin Plasma	High Sensitive Troponin I (Hs-Trop I)	Chemiluminescence
63	CLINICAL BIOCHEMISTRY	Urine	Microalbumin	Turbidometric Immunoassay
64	CLINICAL PATHOLOGY	Ascitic fluid	Glucose	Glucose oxidase, colorimetric
65	CLINICAL PATHOLOGY	Ascitic fluid	LDH	Pyruvate to lactate
66	CLINICAL PATHOLOGY	Ascitic fluid	Mononuclear Cell (MN)	Side Fluorescent Light (SFL) and Forward Scattered Light (FSC)



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67	CLINICAL PATHOLOGY	Ascitic fluid	Polymorphnuclear Cell(PMN)	Side Fluorescent Light (SFL) and Forward Scattered Light (FSC)
68	CLINICAL PATHOLOGY	Ascitic fluid	Protein	Biuret (alkaline cupric tartrate)
69	CLINICAL PATHOLOGY	Ascitic fluid	RBC Count	Hydro-Dynamic Focusing (DC Detection)
70	CLINICAL PATHOLOGY	Ascitic fluid	Routine Examination (Volume, Color, Appearance, Clot, Blood)	Physical examination: Visual observation
71	CLINICAL PATHOLOGY	Ascitic fluid	WBC Count	Side Fluorescent Light (SFL) and Forward Scattered Light (FSC)
72	CLINICAL PATHOLOGY	Cerebrospinal Fluid (CSF)	Chloride	Direct ISE
73	CLINICAL PATHOLOGY	Cerebrospinal Fluid (CSF)	Glucose	Glucose oxidase, colorimetric
74	CLINICAL PATHOLOGY	Cerebrospinal Fluid (CSF)	Mononuclear Cell	Side Fluorescent Light (SFL) and Forward Scattered Light (FSC)
75	CLINICAL PATHOLOGY	Cerebrospinal Fluid (CSF)	Polymorphnuclear Cell(PMN)	Side Fluorescent Light (SFL) and Forward Scattered Light (FSC)
76	CLINICAL PATHOLOGY	Cerebrospinal Fluid (CSF)	Protein	Azo dye
77	CLINICAL PATHOLOGY	Cerebrospinal Fluid (CSF)	RBC Count	Hydro-Dynamic Focusing (DC Detection)
78	CLINICAL PATHOLOGY	Cerebrospinal Fluid (CSF)	Routine Examination: Volume; Color; Appearance; Clot; Blood	Physical examination
79	CLINICAL PATHOLOGY	Cerebrospinal Fluid (CSF)	WBC Count	Side Fluorescent Light (SFL) and Forward Scattered Light (FSC)
80	CLINICAL PATHOLOGY	Pleural fluid	Glucose	Glucose oxidase, colorimetric
81	CLINICAL PATHOLOGY	Pleural fluid	LDH	Pyruvate to lactate
82	CLINICAL PATHOLOGY	Pleural fluid	Protein	Biuret (alkaline cupric tartrate)
83	CLINICAL PATHOLOGY	Pleural fluid	Routine Examination (Volume; Color; Appearance; Clot; Blood)	Physical examination
84	CLINICAL PATHOLOGY	Pleural fluid	Mononuclear Cell(MN)	Side Fluorescent Light (SFL) and Forward Scattered Light (FSC)
85	CLINICAL PATHOLOGY	Pleural fluid	Polymorphnuclear Cell(PMN)	Side Fluorescent Light (SFL) and Forward Scattered Light (FSC)
86	CLINICAL PATHOLOGY	Pleural fluid	RBC Count	Hydro-Dynamic Focusing (DC Detection)
87	CLINICAL PATHOLOGY	Pleural fluid	WBC Count	Side Fluorescent Light (SFL) and Forward Scattered Light (FSC)
88	CLINICAL PATHOLOGY	Semen	Fructose	Seliwanoff's method



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89	CLINICAL PATHOLOGY	Semen	Liquefaction Time	Visual Observation
90	CLINICAL PATHOLOGY	Semen	Microscopic Examination morphological examination	pap's stain
91	CLINICAL PATHOLOGY	Semen	Microscopic Examination: Sperm Motility, Pus Cells,RBC, Epithelial Cells	Microscopy: Wet mount
92	CLINICAL PATHOLOGY	Semen	pH	pH Strip
93	CLINICAL PATHOLOGY	Semen	Total Sperm Count	Neubauer's Chamber
94	CLINICAL PATHOLOGY	Semen	Volume; Appearance; Viscosity	Physical examination
95	CLINICAL PATHOLOGY	Stool	pH; Occult blood	Chemical Examination : Reaction (pH), Occult blood testing by H2O2 (Guaiac method)
96	CLINICAL PATHOLOGY	Stool	Microscopic Examination (Pus Cells, RBC, Epithelial Cell,Undigested Material, Fat, Cyst/PreCyst of parasites,Larvae, Ova,Trophozoites)	Microscopic Examination by Wet Mount (Saline and Iodine, Salt Flootation method)
97	CLINICAL PATHOLOGY	Stool	Reducing Substance	Benedict's test
98	CLINICAL PATHOLOGY	Stool	Routine Examination : Colour, Form & Consistency, Mucus, Blood, Parasites	Physical Examination
99	CLINICAL PATHOLOGY	Urine	Bile Pigments	Fouchet's Reagent
100	CLINICAL PATHOLOGY	Urine	Bile Salts	Sulphur Powder
101	CLINICAL PATHOLOGY	Urine	Bilirubin	Azo dye: Bilirubin
102	CLINICAL PATHOLOGY	Urine	Bilirubin	Diazotized Dichloroaniline
103	CLINICAL PATHOLOGY	Urine	Blood	Pseudoperoxidase activity
104	CLINICAL PATHOLOGY	Urine	Cast	Flowcytometric Analysis
105	CLINICAL PATHOLOGY	Urine	Color Hue	Transmission Chemical analysis: (Photo-optic reflectance method / Manual Biochemical tests)
106	CLINICAL PATHOLOGY	Urine	Crystals	Flowcytometric Analysis
107	CLINICAL PATHOLOGY	Urine	Epithelial Cell	Flowcytometric Analysis
108	CLINICAL PATHOLOGY	Urine	Glucose	Benedict reagent test
109	CLINICAL PATHOLOGY	Urine	Glucose	Glucose oxidase - peroxidase - chromogen reaction
110	CLINICAL PATHOLOGY	Urine	Ketones	Nitroprusside
111	CLINICAL PATHOLOGY	Urine	Ketones	Rothera's Test



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112	CLINICAL PATHOLOGY	Urine	Microscopic Examination (Pus Cells; RBC; Epithelial Cells; Casts; Crystals; Amorphous Deposit)	Microscopy: Wet mount
113	CLINICAL PATHOLOGY	Urine	Nitrites	Azo dye: Nitrites
114	CLINICAL PATHOLOGY	Urine	Occult Blood	Peroxidase activity
115	CLINICAL PATHOLOGY	Urine	Pathological Cast	Flowcytometric Analysis
116	CLINICAL PATHOLOGY	Urine	pH	Double Indicator
117	CLINICAL PATHOLOGY	Urine	Proteins	Protein-error reaction of pH indicator
118	CLINICAL PATHOLOGY	Urine	Proteins	Sulphosalicylic acid method
119	CLINICAL PATHOLOGY	Urine	Red Blood Cell	Flowcytometric Analysis
120	CLINICAL PATHOLOGY	Urine	Specific Gravity	Transmission Refractometry
121	CLINICAL PATHOLOGY	Urine	turbidity	Physical Examination
122	CLINICAL PATHOLOGY	Urine	Urinary Pregnancy Test (UPT)	Immuno-chromatographic
123	CLINICAL PATHOLOGY	Urine	Urobilinogen	Azo dye:Urobilinogen
124	CLINICAL PATHOLOGY	Urine	Urobilinogen	Modified Ehrlich's Test
125	CLINICAL PATHOLOGY	Urine	Volume; Colour; Appearance	Physical examination:
126	CLINICAL PATHOLOGY	Urine	White Blood Cell	Flowcytometric Analysis
127	HAEMATOLOGY	Citrate Plasma	Activated Partial Thromboplastin Time (APTT)	Electromagnetic Clot Detection
128	HAEMATOLOGY	Citrate Plasma	D-Dimer	Enzyme Linked Fluorescence Assay (ELFA)
129	HAEMATOLOGY	Citrate Plasma	Fibrinogen	Electromagnetic Clot Detection
130	HAEMATOLOGY	Citrate Plasma	Prothrombin time (PT)	Electromagnetic Clot Detection
131	HAEMATOLOGY	Citrate Plasma	Thrombin Time (TT)	Electromagnetic Clot Detection
132	HAEMATOLOGY	EDTA Whole Blood	Basophil - Absolute count	Fluorescence flow cytometry
133	HAEMATOLOGY	EDTA Whole Blood	Basophil - Relative count	Fluorescence flow cytometry
134	HAEMATOLOGY	EDTA Whole Blood	Differential Leucocyte Count-(Absolute)	Fluorescence flow cytometry
135	HAEMATOLOGY	EDTA Whole Blood	Differential Leucocyte Count-(Relative)	Fluorescence flow cytometry
136	HAEMATOLOGY	EDTA Whole Blood	Eosinophil - Absolute count	Fluorescence flow cytometry
137	HAEMATOLOGY	EDTA Whole Blood	Eosinophil - Relative count	Fluorescence flow cytometry
138	HAEMATOLOGY	EDTA Whole Blood	Erythrocyte Sedimentation Rate (ESR)	Westergren's Method



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139	HAEMATOLOGY	EDTA Whole Blood	G6PD, Qualitative	Dye Decolorisation
140	HAEMATOLOGY	EDTA Whole Blood	Haematocrit (HCT)	Cumulative RBC pulse height Detection method
141	HAEMATOLOGY	EDTA Whole Blood	Haemoglobin (Hb)	SLS-hemoglobin method WB
142	HAEMATOLOGY	EDTA Whole Blood	Lymphocyte - Absolute Count	Fluorescence flow cytometry
143	HAEMATOLOGY	EDTA Whole Blood	Lymphocyte - Relative Count	Fluorescence flow cytometry
144	HAEMATOLOGY	EDTA Whole Blood	Malarial Parasite (MP) with Parasitic Index (PI)	Giemsa Stain - Thin and Thick Smear with Microscopy
145	HAEMATOLOGY	EDTA Whole Blood	Mean Corpuscular Haemoglobin (MCH)	Derived from Hemoglobin and Red Blood Cell
146	HAEMATOLOGY	EDTA Whole Blood	Mean Corpuscular Haemoglobin Concentration (MCHC)	Derived from haemoglobin and HCT
147	HAEMATOLOGY	EDTA Whole Blood	Mean Corpuscular Volume (MCV)	Derived from HCT and RBC
148	HAEMATOLOGY	EDTA Whole Blood	Mean Platelet Volume (MPV)	Derived from Platelet Count and plateletcrit
149	HAEMATOLOGY	EDTA Whole Blood	Monocyte - Absolute count	Fluorescence flow cytometry
150	HAEMATOLOGY	EDTA Whole Blood	Monocyte - Relative count	Fluorescence flow cytometry
151	HAEMATOLOGY	EDTA Whole Blood	Neutrophil - Relative count	Fluorescence flow cytometry
152	HAEMATOLOGY	EDTA Whole Blood	Neutrophil -Absolute count	Fluorescence flow cytometry
153	HAEMATOLOGY	EDTA Whole Blood	Peripheral Smear	Leishman's Stain with Microscopy
154	HAEMATOLOGY	EDTA Whole Blood	Platelet Count	Hydro-Dynamic Focusing Impedence method (DC Detection)
155	HAEMATOLOGY	EDTA Whole Blood	Rapid Malaria Antigen	Chromatography (pLDH and HRP2 antigens)
156	HAEMATOLOGY	EDTA Whole Blood	Red Blood Cell Count (RBC)	Hydro-Dynamic Focusing Impedence method (DC Detection)
157	HAEMATOLOGY	EDTA Whole Blood	Red Distribution Width (RDW)-CV	Derived from Red Blood Cell Histogram
158	HAEMATOLOGY	EDTA Whole Blood	Reticulocyte Count	Side Fluorescent Light (SFL) and Forward Scattered Light (FSC)
159	HAEMATOLOGY	EDTA Whole Blood	Total Leukocyte Count (WBC)	Hydro-Dynamic Focusing Impedence method (DC Detection)+Fluorescence flow cytometry



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160	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Blood	Automated Blood Culture	Automated Advanced Colorimetric Detection Identification and conventional methods (Biochemical tests) & Antimicrobial Susceptibility Test by automated MIC methodology and by disc diffusion (Kirby Bauer)
161	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Hand Impression / Nasal swab	MRSA Screening	Conventional Aerobic Culture & Identification by Advanced colorimetric method and conventional methods (Biochemical tests) & Antimicrobial Susceptibility Test by automated MIC methodology and by disc diffusion (Kirby Bauer)
162	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Nail Scrap / Skin / Hair / Pus / Sputum / swabs / Urine / Pleural fluid, ascitic fluid, peritoneal/ abdominal fluid, synovial/ joint fluid, cyst fluid, CSF/Oral secretions, nasal secretions, Endotracheal/ tracheal secretions, Bronchoalveolar lavage, drain fluids/ Tissue	Fungal Smear Examination	Wet mount in KOH & / or Gram Stain
163	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Pleural fluid, ascitic fluid, peritoneal/ abdominal fluid, synovial/ joint fluid, cyst fluid, CSF	Aerobic Culture & Antimicrobial Susceptibility Test	Conventional Aerobic Culture & Identification by Advanced colorimetric method and conventional methods (Biochemical tests) & Antimicrobial Susceptibility Test by automated MIC methodology and by disc diffusion (Kirby Bauer)
164	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Pleural fluid, ascitic fluid, peritoneal/ abdominal fluid, synovial/ joint fluid, cyst fluid, CSF	Automated Fluid Culture	Automated Advanced Colorimetric Detection Identification by colorimetric method and conventional methods (Biochemical tests) & Antimicrobial Susceptibility Test by automated MIC methodology and by disc diffusion (Kirby Bauer)
165	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Pus / Pus swab / Swab / Sputum / Urine / Stool / Semen / - Pleural fluid, ascitic fluid, peritoneal/ abdominal fluid, synovial/ joint fluid, cyst fluid, CSF/ Oral secretions, nasal secretions, Endotracheal/ tracheal secretions, Bronchoalveolar lavage, drain fluids/ Tissue	Fungal Culture, Identification & Yeast Sensitivity	Conventional Fungal Culture & Identification of yeast by advanced colorimetric method and sensitivity by automated MIC methodology. Identification of filamentous fungi by conventional methods.





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166	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Pus / Pus Swab / Swab / Sputum / Urine / Stool / Tissue/ Tips and Oral secretions, nasal secretions, Endotracheal/ tracheal secretions, Bronchoalveolar lavage, drain fluids	Aerobic Culture & Antimicrobial Susceptibility Test	Conventional Aerobic Culture & Identification by Advanced colorimetric method and conventional methods (Biochemical tests) & Antimicrobial Susceptibility Test by automated MIC methodology and by disc diffusion (Kirby Bauer)
167	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Pus, pus swab, swabs, sputum, respiratory secretions, urine, stool, tissue, oral secretions, nasal secretions, Endotracheal secretions, Bronchoalveolar lavage, drain fluids, Pleural fluid, ascitic fluid, peritoneal/ abdominal fluid, synovial/ joint fluid, cyst fluid, CSF	Gram's stain	Conventional Gram's stain & Microscopy
168	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Pus, sputum, respiratory secretions, urine, stool, tissue, oral secretions, nasal secretions, Endotracheal secretions, Bronchoalveolar lavage, drain fluids, Pleural fluid, ascitic fluid, peritoneal/ abdominal fluid, synovial/ joint fluid, cyst fluid, CSF	Acid Fast Bacilli (AFB) stain	Modified Ziehl- Neelsen stain & Microscopy
169	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Hepatitis B Surface Antigen (HBsAg)	Immunochematographic
170	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Hepatitis C Virus (HCV)	Immunochematographic
171	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Human Immunodeficiency Virus (HIV) 1 & 2	Immunochematographic
172	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Rapid Plasma Reagin (RPR)	RPR by Slide Flocculation
173	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Widal Test	Tube test Agglutination
174	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum / Heparin Plasma	Hepatitis B Surface Antigen (HBsAg)	Immunochematographic Assay by Enhanced Chemiluminescence
175	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum / Heparin Plasma	Hepatitis B Surface Antigen (HBsAg) (Ultra)	Enzyme Linked Fluorescence Assay (ELFA)
176	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum / Heparin Plasma / Citrate Plasma	Human Immunodeficiency Virus (HIV) 1 & 2	Double Antigen Immunochematographic Assay by Enhanced Chemiluminescence
177	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum / Heparin Plasma / EDTA Plasma	Anti-Hepatitis A Virus IgM (HAV IgM)	Enzyme Linked Fluorescence Assay (ELFA)
178	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum / Heparin Plasma / EDTA Plasma	Anti-Streptolysin O (ASO)	Immunochematographic Assay



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

DEPARTMENT OF LABORATORY MEDICINE - DR L H HIRANANDANI HOSPITAL, FIRST FLOOR, HILLSIDE AVENUE, HIRANANDANI GARDENS, POWAI, MUMBAI, MAHARASHTRA, INDIA

**Laboratory Name :**

**Accreditation Standard** ISO 15189:2012

**Certificate Number** MC-2145

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**Last Amended on**

31/08/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
179	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum / Heparin Plasma / EDTA Plasma	C-Reactive protein (CRP)	Non-competitive Immunorate Assay
180	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum / Heparin Plasma / EDTA Plasma	Human Immunodeficiency Virus (HIV) - Duo (Ultra)	Enzyme Linked Fluorescence Assay (ELFA) [HIV p24 antigen, HIV antibody]
181	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum / Heparin Plasma / EDTA Plasma	Rheumatoid Factor (RA)	Immunoturbidimetric Assay
182	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum / Heparin Plasma / EDTA Plasma / Citrate Plasma	Hepatitis C Virus (HCV)	Immunometric Assay by Enhanced Chemiluminescence
183	MOLECULAR TESTING	Blood	HCV RNA Quantitative	Real Time RT PCR - CBNAAT (Closed System)



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**Accreditation Standard** ISO 15189:2012

**Certificate Number** MC-2145

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**Validity** 23/04/2022 to 22/04/2024

**Last Amended on** 31/08/2022

### Recognised Sample Collection Center/Facility

ID of Sample Collection Center / Facility	Name of Sample Collection Center / Facility, Location	Address of Sample Collection Center / Facility
0001775	JVLR Laboratory Collection Centre, Andheri East	JVLR Road, 20, Poonam Vihar B, Ground floor, Majas Village, Andheri (E). Mumbai



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**Last Amended on** 31/08/2022

### Recognised Sample Collection Center/Facility

ID of Sample Collection Center / Facility	Name of Sample Collection Center / Facility, Location	Address of Sample Collection Center / Facility
0001776	Raheja Vihar Laboratory Collection Centre, Andheri (E)	102, Anoushka Polyclinic, Crystal Centre, 1st Floor, Opposite Chandivali, Raheja Vihar, Andheri (E). Mumbai



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### Recognised Sample Collection Center/Facility

ID of Sample Collection Center / Facility	Name of Sample Collection Center / Facility, Location	Address of Sample Collection Center / Facility
0001778	Hiranandani Hospital Collection Centre Thane, Thane	Hiranandani Hospital, Hamilton, B Building, Hiranandani estate, off Ghodbunder Road, Patlipada, Thane (West)-400076