



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

CENTRAL CLINICAL LABORATORY- KARPAGA VINAYAGA INSTITUTE OF MEDICAL SCIENCES AND RESEARCH CENTRE, GST ROAD, CHINNAKOLAMBAKKAM, MADURANTHAKAM, TAMIL NADU, INDIA

**Accreditation Standard**

ISO 15189:2012

**Certificate Number**

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**Validity**

10/01/2022 to 09/01/2024

**Last Amended on**

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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	Plasma	Glucose	Glucose-oxidase peroxidase
2	CLINICAL BIOCHEMISTRY	Serum	A/G ratio	Calculated
3	CLINICAL BIOCHEMISTRY	Serum	Alanine Transaminase	IFCC - Enzymatic UV monitoring
4	CLINICAL BIOCHEMISTRY	Serum	Albumin	Bromocresol Green
5	CLINICAL BIOCHEMISTRY	Serum	Alkaline Phosphatase	IFCC - AMP
6	CLINICAL BIOCHEMISTRY	Serum	Amylase	Direct Substrate
7	CLINICAL BIOCHEMISTRY	Serum	Aspartate Transaminase	IFCC with Pyridoxal Phosphate
8	CLINICAL BIOCHEMISTRY	Serum	Bilirubin Direct	Dichlorophenyl Diazonium
9	CLINICAL BIOCHEMISTRY	Serum	Bilirubin Indirect	Calculated
10	CLINICAL BIOCHEMISTRY	Serum	Bilirubin Total	Diazotized Sulphanilic acid
11	CLINICAL BIOCHEMISTRY	Serum	Calcium	Arsenazo III
12	CLINICAL BIOCHEMISTRY	Serum	Chloride	Direct Ion Selective Electrode
13	CLINICAL BIOCHEMISTRY	Serum	Cholesterol	Cholesterol Oxidase - Peroxidase
14	CLINICAL BIOCHEMISTRY	Serum	Cholesterol - High Density Lipoprotein	Direct Detergent
15	CLINICAL BIOCHEMISTRY	Serum	Creatinine	Jaffe's Method
16	CLINICAL BIOCHEMISTRY	Serum	Free Thyroxine	Chemiluminescent Immuno Assay (CLIA)



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17	CLINICAL BIOCHEMISTRY	Serum	Free Triiodothyronine	Chemiluminescent Immuno Assay (CLIA)
18	CLINICAL BIOCHEMISTRY	Serum	Gamma Glutamyl Transferase	IFCC
19	CLINICAL BIOCHEMISTRY	Serum	Globulin	Calculation
20	CLINICAL BIOCHEMISTRY	Serum	Lipase	Coupled enzyme spectrophotometric method
21	CLINICAL BIOCHEMISTRY	Serum	Low Density Lipoprotein - Cholesterol	Cholesterol oxidase - Peroxidase
22	CLINICAL BIOCHEMISTRY	Serum	Magnesium	Xylidyl blue
23	CLINICAL BIOCHEMISTRY	Serum	Non-HDL Cholesterol	Calculation
24	CLINICAL BIOCHEMISTRY	Serum	Phosphorus	Phosphomolybdate/UV
25	CLINICAL BIOCHEMISTRY	Serum	Potassium	Direct Ion Selective Electrode
26	CLINICAL BIOCHEMISTRY	Serum	Sodium	Direct Ion Selective Electrode
27	CLINICAL BIOCHEMISTRY	Serum	Thyroid Stimulating Hormone (TSH)	Chemiluminescent Immuno Assay (CLIA)
28	CLINICAL BIOCHEMISTRY	Serum	Thyroxine (T4)	Chemiluminescent Immuno Assay (CLIA)
29	CLINICAL BIOCHEMISTRY	Serum	Total Cholesterol/HDL ratio	Calculated
30	CLINICAL BIOCHEMISTRY	Serum	Total Protein	Biuret Method
31	CLINICAL BIOCHEMISTRY	Serum	Triglycerides	Glycerol Phosphate Oxidase/Peroxidase



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32	CLINICAL BIOCHEMISTRY	Serum	Triiodothyronine (T3)	Chemiluminescent Immuno Assay (CLIA)
33	CLINICAL BIOCHEMISTRY	Serum	Urea	Urease/Glutamate Dehydrogenase
34	CLINICAL BIOCHEMISTRY	Serum	Uric acid	Uricase/Peroxidase
35	CLINICAL BIOCHEMISTRY	Serum	VLDL Cholesterol	Calculated
36	CLINICAL BIOCHEMISTRY	Serum	Free Thyroxine	ECLIA
37	CLINICAL BIOCHEMISTRY	Serum	Free Triodo Thyronine	ECLIA
38	CLINICAL BIOCHEMISTRY	Serum	Thyroid Stimulating Hormone (TSH)	ECLIA
39	CLINICAL BIOCHEMISTRY	Serum	Thyroxine (T4)	ECLIA
40	CLINICAL BIOCHEMISTRY	Serum	Triiodo thyronine (T3)	ECLIA
41	CLINICAL PATHOLOGY	Urine	Bilirubin	a. Dichlorobenzene diazonium (Semi-automated) b. Manual-Fouchet's test
42	CLINICAL PATHOLOGY	Urine	Blood	a. Di-isopropyl benzene dihydroperoxide, tetramethylbenzidine (Semi-automated) b. Manual- Benzidine test
43	CLINICAL PATHOLOGY	Urine	Deposits	Microscopy/manual
44	CLINICAL PATHOLOGY	Urine	Glucose	a. Glucose oxidase peroxidase (Semi-automated) b. Manual-Benedict's test





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45	CLINICAL PATHOLOGY	Urine	Ketones	a. Sodium nitroprusside (Semi-automated) b. Manual- Rothera's test
46	CLINICAL PATHOLOGY	Urine	Leucocytes	a. Pyrrole aminoacid ester (Semi-automated) b. Microscopy/manual
47	CLINICAL PATHOLOGY	Urine	pH	Double indicators - Bromocresol green and bromothymol blue (Semi-automated)
48	CLINICAL PATHOLOGY	Urine	Protein	a. Protein error of indicators - Tetrabromophenol blue (Semi-automated) b. Manual- Sulfosalicylic acid method.
49	CLINICAL PATHOLOGY	Urine	Specific gravity	Bromothymol blue (Semi-automated)
50	CLINICAL PATHOLOGY	Urine	Urobilinogen	a. Fast B Blue (Semi-automated) b. Manual- Ehrlich's Aldehyde Test
51	HAEMATOLOGY	EDTA Whole Blood	Eosinophils%	Electrical Impedance and Leishman stain & Microscopy
52	HAEMATOLOGY	EDTA Whole Blood	ESR	Capillary Photometry/ Modified Westergren Method
53	HAEMATOLOGY	EDTA Whole Blood	HCT/PCV	Calculated
54	HAEMATOLOGY	EDTA Whole Blood	Hemoglobin	Cyanide Free method



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55	HAEMATOLOGY	EDTA Whole Blood	Basophils%	Electrical Impedance and Leishman stain & Microscopy
56	HAEMATOLOGY	EDTA Whole Blood	Lymphocytes%	Electrical Impedance and Leishman stain & Microscopy
57	HAEMATOLOGY	EDTA Whole Blood	Malarial parasite	Leishman stain & Microscopy
58	HAEMATOLOGY	EDTA Whole Blood	MCH	Calculated
59	HAEMATOLOGY	EDTA Whole Blood	MCHC	Calculated
60	HAEMATOLOGY	EDTA Whole Blood	MCV	Calculated
61	HAEMATOLOGY	EDTA Whole Blood	Microfilaria	Leishman stain & Microscopy
62	HAEMATOLOGY	EDTA Whole Blood	Monocytes%	Electrical Impedance and Leishman stain & Microscopy
63	HAEMATOLOGY	EDTA Whole Blood	MPV	Calculated
64	HAEMATOLOGY	EDTA Whole Blood	Neutrophils%	Electrical Impedance and Leishman stain & Microscopy
65	HAEMATOLOGY	EDTA Whole Blood	Platelet count	Electrical Impedance
66	HAEMATOLOGY	EDTA Whole Blood	RBC count	Electrical Impedance
67	HAEMATOLOGY	EDTA Whole Blood	RDW - CV	Calculated
68	HAEMATOLOGY	EDTA Whole Blood	Reticulocyte count	Brilliant Cresyl Blue & Microscopy
69	HAEMATOLOGY	EDTA Whole Blood	Total WBC count	Electrical Impedance



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70	HAEMATOLOGY	EDTA Whole Blood/ Capillary blood	Peripheral smear	Leishman stain & Microscopy
71	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Aqueous Fluid/ Vitreous Fluid	Bacterial Culture & Sensitivity	Culture - Aerobic Sensitivity - Disc diffusion Kirby - Bauer method
72	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Blood/ Bone marrow	Bacterial Culture & Sensitivity (Manual method)	Culture - Aerobic Sensitivity - Disc diffusion Kirby-Bauer method (Manual method)
73	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Bronchial Wash/ Broncho Alveolar Lavage	Bacterial Culture & Sensitivity	Culture - Aerobic using calibrated loops Sensitivity - Disc diffusion Kirby-Bauer method
74	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Conjunctival swab/ Corneal scrapings	Bacterial Culture & Sensitivity	Culture - Aerobic & Antimicrobial Susceptibility by Disc diffusion method
75	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Endotracheal Secretion	Bacterial Culture & Sensitivity	Culture - Aerobic using calibrated loops Sensitivity - Disc diffusion Kirby-Bauer method
76	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Fluids - CSF/ Ascitic/ CAPD/ Synovial/ Aspirate/ Bile/ Pleural Fluid/ Semen	Bacterial Culture & Sensitivity	Culture - Aerobic Sensitivity - Disc diffusion Kirby-Bauer method





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77	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Material from IV Catheter tips	Bacterial Culture & Sensitivity	Culture - Aerobic Sensitivity - Disc diffusion Kirby-Bauer method
78	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Nasal swab/Ear Swab / Wound / Pus Swab / High Vaginal Swab / Throat swab/cervical swab /urethral discharge	Bacterial Culture & Sensitivity	Culture - Aerobic Sensitivity - Disc diffusion Kirby-Bauer method
79	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Antistreptolysin O (ASO)	Latex Agglutination
80	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	C Reactive Protein (CRP)	Latex Agglutination
81	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Rheumatoid Factor	Latex Agglutination
82	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum, Plasma	Hepatitis B Surface Antigen	Immunochemistry
83	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum, Plasma & Whole blood	HIV Antibody	Immunochemistry
84	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum, Plasma and Whole Blood	Hepatitis C Antibody	Immunochemistry
85	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum, Plasma, Whole Blood	HIV	Flow through assay



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86	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Sputum	Bacterial Culture and Sensitivity	Culture - Aerobic Sensitivity - Disc diffusion Kirby-Bauer method (Manual method)
87	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Stool	Bacterial Culture & Sensitivity	Culture - Aerobic Sensitivity - Disc diffusion Kirby-Bauer method
88	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Tissue / Lymph node / Heart Valves	Bacterial Culture & Sensitivity	Culture - Aerobic Sensitivity - Disc diffusion Kirby-Bauer method
89	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Urine	Bacterial Culture & Antimicrobial Susceptibility testing	Culture - Aerobic Semiquantitative using calibrated loop Sensitivity - Disc diffusion Kirby-Bauer method
90	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Urine/ Sputum/ CSF/ Peritoneal/ Ascitic Fluid/ Pleural Fluid/ Synovial Fluid/ Bronchial Wash/ Broncho - Alveolar Lavage/ Endotracheal secretions/ Gastric Aspirate/ CAPD Fluid/ Wound/ Pus/ Tissue/ Biopsy sample	Direct Gram's smear	Gram staining and Microscopy





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91	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Urine/ Sputum/ CSF/ Peritoneal/ Ascitic Fluid/ Pleural Fluid/ Synovial Fluid/ Bronchial Wash/ Broncho - Alveolar Lavage/ Gastric Aspirate/ CAPD Fluid/ Pus/ Tissue/ Biopsy sample	AFB smear (Direct method)	Ziehl Nielsen Staining and Microscopy
92	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum, Plasma & Whole blood	HIV	Immunoassay
93	MOLECULAR TESTING	Blood	HCV RNA Quantitative	Real Time RT PCR (Closed System)
94	MOLECULAR TESTING	Blood	HCV RNA Quantitative	Real Time RT PCR (Open System)
95	MOLECULAR TESTING	Nasopharyngeal swab /oropharyngeal swab in VTM/ ET secretions /BAL in VTM	SARS-CoV-2 RNA Qualitative	Real Time RT PCR (Closed System)
96	MOLECULAR TESTING	Nasopharyngeal swab /oropharyngeal swab in VTM/ ET secretions /BAL in VTM	SARS-CoV-2 RNA Qualitative	Real Time RT PCR (Open System)