



INTERNATIONAL QUALITY AND ACCREDITATION SERVICES LLP

Scope of Accreditation for Medical Testing

As per ISO 15189:2012

Page No. 1 of 9

CAB Name : Spectrum Laboratory, Spectrum Clinical Research Pvt. Ltd.
Address : 5th Floor, Manish Commercial Complex, Dr. Annie Besant Road,
Worli Mumbai 400030, Maharashtra, India

Certificate No: M-0004

Issue date : 04.10.2023
Validity : 03.10.2024
Amendment date : NA

Medical Testing

Sr. No	Discipline/Parameter/ Materials/Products tested	Type of Test/Properties measured/Range of measurement	Standard specifications / Equipment/Techniques used	Facility
01	Clinical Biochemistry: Serum/ Plasma	Glucose (20-625 mg/dL)	Glucose Oxidase - Peroxidase	Permanent
02	Clinical Biochemistry: Serum	Creatinine (0.05 - 14.0 mg/dL)	Enzymatic Method	Permanent
03	Clinical Biochemistry: Serum	Urea Nitrogen/ BUN (2-120 mg/dL)	Urease End point technique	Permanent
04	Clinical Biochemistry: Serum	Uric Acid (0.5 -17 mg/dL)	Enzymatic uricase / peroxidase	Permanent
05	Clinical Biochemistry: Serum	Cholesterol (50 - 325 mg/dL)	Enzymatic using cholesterol oxidase and ester hydrolase & peroxidase	Permanent
06	Clinical Biochemistry: Serum	D-HDL Cholesterol (5 - 110 mg/dL)	Non-HDL precipitation method followed by enzymatic detection.	Permanent
07	Clinical Biochemistry: Serum	Triglycerides (10 - 525 mg/dL)	Combination of enzymes LIP& GK;GPO / POD	Permanent
08	Clinical Biochemistry: Serum	Calcium (1 - 14 mg/dL)	Arsenazo Method	Permanent
09	Clinical Biochemistry: Serum	Total Bilirubin (0.1 - 27.0 mg /dL)	Modification of classic Diazo reaction using Dyphylline	Permanent

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10	Clinical Biochemistry: Serum	Bu(Unconjugated/Indirect bilirubin) (0.0 – 27.0 mg/dL)	Modified JendrassikGrof method	Permanent
11	Clinical Biochemistry: Serum	Bc (Conjugated/Direct Bilirubin)	Calculated	Permanent
12	Clinical Biochemistry: Serum	Aspartate Amino Transferase -AST/SGOT (3 - 750 U/L)	pyridoxal-5-phosphate(P5P) method	
13	Clinical Biochemistry: Serum	Alanine Amino Transferase - ALT/SGPT (6 - 1000 U/L)	pyridoxal-5-phosphate(P5P) method	
14	Clinical Biochemistry: Serum	Alkaline Phosphatase (ALKP) (4 U/L to 750 U/L)	Method by Bowers and Mc Comb using p-NPP	Permanent
15	Clinical Biochemistry: Serum	Gamma Glutamyl Transpeptidase (GGT) (10 - 1400 U/L1u)	Using γ -glutamyl-4-nitroanilide technique	Permanent
16	Clinical Biochemistry: Serum	Total Protein (2 - 11 gm/dL)	Biuret End point reaction	Permanent

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17	Clinical Biochemistry: Serum	Albumin (1.0 – 6.0 gm /dL)	Bromocresol Green Dye Binding method	Permanent
18	Clinical Biochemistry: Serum	Globulin	Calculated	Permanent
19	Clinical Biochemistry: Serum	LDL	Calculated (Friedwald's)	Permanent
20	Clinical Biochemistry: Serum	VLDL	Calculated (Friedwald's)	Permanent
21	Clinical Biochemistry: Serum	Sodium (75 – 250mmol/L)	ISE Direct	Permanent
22	Clinical Biochemistry: Serum	Potassium (1 – 14 mmol/L)	ISE Direct	Permanent
23	Clinical Biochemistry: Serum	Chloride (50 – 175 mmol/L)	ISE Direct	Permanent
24	Clinical Biochemistry: Serum	Phosphorous (0.5 – 13.0 mg/dL)	Ammonium Molybdate method	Permanent
25	Clinical Biochemistry: Whole Blood	Glycated hemoglobin (HbA1c) (2.7% - 19.7 %)	HPLC	Permanent
26	Clinical Pathology: Urine	Colour	Visual	Permanent
27	Clinical Pathology: Urine	Volume	Measuring Cylinder	Permanent
28	Clinical Pathology: Urine	pH	pH Indicator Principle	Permanent

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29	Clinical Pathology: Urine	Specific Gravity	Polymeric Ionic Exchanger	Permanent
30	Clinical Pathology: Urine	Albumin	Dye Binding Indicator	Permanent
31	Clinical Pathology: Urine	Occult blood	Peroxidase Activity	Permanent
32	Clinical Pathology: Urine	Glucose	Glucose Oxidase	Permanent
33	Clinical Pathology: Urine	Ketones	Nitroprusside Test	Permanent
34	Clinical Pathology: Urine	Urobilinogen	Modified Ehrlich Reaction	Permanent
35	Clinical Pathology: Urine	Bile Pigments	Faucher's Reaction	Permanent
36	Clinical Pathology: Urine	Bile salts	Hay's Sulphur Flower Test	Permanent
37	Clinical Pathology: Urine	Microscopic Examination after Centrifugation	Pus Cells (leukocytes), Epithelial Cells, Red Cells, Casts, Crystals and Miscellaneous will Include Yeast, Parasites and Bacteria	Permanent
38	Clinical Pathology: Stool	Colour	Visual	Permanent
39	Clinical Pathology: Stool	Form	Visual	Permanent
40	Clinical Pathology: Stool	Occult Blood	Haemtest™ Kit (Non-Benzidine Kit)	Permanent
41	Clinical Pathology: Stool	pH	pH Indicator Paper	Permanent

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42	Clinical Pathology: Stool	Saline and Iodine smears	Pus Cells, Epithelial Cells, Red Cells, Ova, Cysts	Permanent
43	Clinical Pathology: Stool	Concentration	Formalin-Ether Sedimentation method, Ova and Others	Permanent
44	Clinical Pathology: Urine	Pregnancy Test	Detection of Beta HCG	Permanent
45	Immunoassay: Serum	Total T3 (Total Triiodothyronine) (10 – 800 ng/dL)	Chemiluminescent Microparticle Immuno Assay (CMIA)	Permanent
46	Immunoassay: Serum	Total T4 (Total Thyroxine) (0.3 – 30 µg/dL)	Chemiluminescent Microparticle Immuno Assay (CMIA)	Permanent
47	Immunoassay: Serum	TSH (Thyroid Stimulating Hormone) (0.010 – 150 µIU/ml)	Chemiluminescent Microparticle Immuno Assay (CMIA)	Permanent
48	Immunoassay: Serum	PSA (Prostate Specific Antigen) (0.01 – 100 ng/ml)	Chemiluminescent Microparticle Immuno Assay (CMIA)	Permanent
49	Immunoassay: Serum	Vitamin B12 (45 – 2000 pg/ml)	Chemiluminescent Microparticle Immuno Assay (CMIA)	Permanent
50	Immunoassay: Serum	Vitamin D (Total) (3.7 – 150 ng/ml)	Chemiluminescent Microparticle Immuno Assay (CMIA)	Permanent

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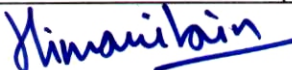
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51	Immunoassay: Serum	Free T3 (0.88 – 30.0 pg/ml)	Chemiluminescent Microparticle Immuno Assay (CMIA)	Permanent
52	Immunoassay: Serum	Free T4 (0.25 – 6.0 ng/dL)	Chemiluminescent Microparticle Immuno Assay (CMIA)	Permanent
53	Immunoassay: Serum	Luteinizing Hormone (LH) (0.2 – 250 mIU/ml)	Chemiluminescent Microparticle Immuno Assay (CMIA)	Permanent
54	Immunoassay: Serum	Follicle-Stimulating Hormone (FSH) (0.2 – 200 mIU/ml)	Chemiluminescent Microparticle Immuno Assay (CMIA)	Permanent
55	Immunoassay: Serum	Prolactin (PRL) (0.25 – 200 ng/ml)	Chemiluminescent Microparticle Immuno Assay (CMIA)	Permanent
56	Immunoassay: Serum	Insulin (0.03 – 300 µIU/ml)	Chemiluminescent Microparticle Immuno Assay (CMIA)	Permanent
57	Immunoassay: Serum	Human Chorionic Gonadotropin (HCG) (0.5 – 1000 mIU/ml)	Chemiluminescent Microparticle Immuno Assay (CMIA)	Permanent
58	Immunoassay: Serum	Carcinoembryonic Antigen (CEA) (0.1 – 1000 ng/ml)	Chemiluminescent Microparticle Immuno Assay (CMIA)	Permanent
59	Immunoassay: Serum	CA125 (0.5 – 5000 U/ml)	Sandwich Immunoassay	Permanent
60	Immunoassay: Serum	CA 19.9 (0.8 – 2000 U/ml)	Chemiluminescent Assay	Permanent


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61	Immunoassay: Serum	Alpha-Fetoprotein (AFP) (0.5 – 3000 ng/ml)	Chemiluminescent Microparticle Immuno Assay (CMIA)	Permanent
62	Immunoassay: Serum	Immunoglobulin E (IgE) (5.7 – 1500 IU/ml)	Latex-enhanced Immunoturbidimetric	Permanent
63	Haematology: Whole Blood	Haemoglobin (0.0 to 26.0 g/dL)	Sysmex XN 1000 Cyanmethaemoglobin method	Permanent
64	Haematology: Whole Blood	Red Blood Cells Count (0.0 to 8.60 x 10 ⁶ / μ L)	Sysmex XN 1000 Electrical Impedance	Permanent
65	Haematology: Whole Blood	Packed Cell Volume (PCV or Hematocrit) (0.0 - 75.0 %)	Sysmex XN 1000 Electrical Impedance	Permanent
66	Haematology: Whole Blood	Indices	Sysmex XN 1000 Calculation	Permanent
67	Haematology: Whole Blood	White Blood Cells Count (0.0 to 440.0 x 10 ³ / μ L)	Sysmex XN 1000 Flow cytometry	Permanent

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68	Haematology: Whole Blood	Platelets (0.0 to 5000 x10 ³ /μL)	Sysmex XN 1000 Electrical Impedance	Permanent
69	Haematology: Whole Blood	Differential Count (0 – 100 %)	Sysmex XN 1000 Electrical Impedance	Permanent
70	Haematology: Whole Blood	Other parameters RDW, PDW, P-LCR	Sysmex XN 1000 Electrical Impedance	Permanent
71	Haematology: Whole Blood	Erythrocyte Sedimentation Rate (ESR)	Capillary Photometry	Permanent
72	Haematology: Whole Blood	Blood Grouping	Tube agglutination	Permanent
73	Haematology: Whole Blood	Blood Rh factor	Tube agglutination	Permanent
74	Haematology: Citrated Plasma	Prothrombin Time (PT) (0 – 120 Seconds)	Tissue Thromboplastin in presence of Calcium initiating Clotting Mechanism	Permanent

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75	Haematology: Whole Blood	Glucose-6-Phosphate Dehydrogenase (G6PD)	Dye Decolouration using Indophenol Dye	Permanent
76	Serology: Serum	Hepatitis B surface antigen (HBsAg) (Reactive / Non Reactive)	Immunochromatographic assay for the detection of Hepatitis B Surface Antigen	Permanent
77	Serology: Serum	Venereal Disease Research Laboratory Test (VDRL)/ RPR (Reactive / Non Reactive)	Detection of Anti-lipoidal antibodies by flocculation method	Permanent
78	Serology: Serum	Widal (Highest Titre)	Antigen - Antibody reaction	Permanent
79	Serology: Serum	Anti-hepatitis C virus (Anti-HCV) (Reactive / Non Reactive)	Immunochromatographic assay for the detection of Hepatitis C virus	Permanent

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