



**National Accreditation Board for
Testing and Calibration Laboratories**
(A Constituent Board of Quality Council of India)



CERTIFICATE OF ACCREDITATION

**SRI NATHELLA SAMPATHU CHETTY
CLINICAL LABORATORY (UNIT OF MEDICAL
RESEARCH FOUNDATION)**

has been assessed and accredited in accordance with the standard

ISO 15189:2012

"Medical laboratories - Requirements for quality and competence"

for its facilities at

No. 41, College Road, Chennai, Tamil Nadu

in the field of

MEDICAL TESTING

Certificate Number MC-2342 (in lieu of M-0094)

Issue Date 14/08/2017

Valid Until 13/08/2019

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

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

Signed for and on behalf of NABL

Dr. Vandana Jain
Program Director



89076970300010000010

Anil Relia
Chief Executive Officer



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SCOPE OF ACCREDITATION

Laboratory Sri Nathella Sampathu Chetty Clinical Laboratory (Unit of Medical Research Foundation), No. 41, College Road, Chennai, Tamil Nadu

Accreditation Standard ISO 15189: 2012

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Sl.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
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CLINICAL BIOCHEMISTRY

1.	Plasma	Glucose	Hexokinase	1 - 500 mg/dL	2.5
2.	Plasma	Urea	Urease	1.0 - 150 mg/dL	4.1
3.	Plasma	Creatinine	Jaffe - Kinetic	0.05 - 20 mg/dL	3.9
4.	Plasma / Serum	Total Cholesterol	CHO/POD Enzymatic	50-600 mg/dL	4.7
5.	Plasma / Serum	Sodium	ISE -Direct	40 - 200 mmol /L	0.9
6.	Plasma / Serum	Potassium	ISE -Direct	1.5 - 15 mmol /L	1.2
7.	Plasma / Serum	Chloride	ISE -Direct	50- 200 mmol/L	1.7
8.	Serum	Calcium, Total	OCPC / End Point	5 - 15 mg/dL	2.9
9.	Serum	Inorganic Phosphorus	Phosphomolybdate	0.5 - 9 mg/ dL	4.1
10.	Plasma / Serum	Bilirubin, Total	Diazo-caffeine	0.1- 25 mg/dL	9.5
11.	Plasma / Serum	Bilirubin, Direct	Diazo	0.05 - 16.0 mg/dL	6.7
12.	Plasma / Serum	Total Protein	Biuret	2 - 12 g/ dL	8.7
13.	Plasma / Serum	Albumin	BCP-dye binding method	0.6 - 8.0 g/ dL	3.3
14.	Plasma / Serum	Alkaline Phosphatase	PNPP with- AMP	10.0 -1000 U/L	6.3
15.	Plasma / Serum	Alanine amino Transferase	IFCC with P5P	6.0 - 1000 U/L	3.6
16.	Plasma / Serum	HDL Cholesterol	Direct-Enzymatic	3.0 - 150 mg/dL	3.9
17.	Plasma/Serum (Fasting)	Triglyceride	Enzymatic	15 - 1000 mg/dL	3.8
18.	Plasma / Serum	Aspartic amino Transferase	IFCC with P5P	0 - 1000 U/L	6.0
19.	Serum	Angiotensin Converting Enzyme	FAPGG-UV-Kinetic	8 - 251 U/L	12.0

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Devaki Devi Mandava
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Vandana Jain
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CLINICAL PATHOLOGY

1.	Urine	pH	Reflectance Photometry – Dip stick – Methyl Red and bromothymol blue	5.0 – 9.0	NA
2.	Urine	Specific Gravity	Reflectance Photometry – Dip stick – Bromthymol blue	1.000 – 1.030	NA
3.	Urine	Glucose	Benedicts qualitative method	Negative to ++++	NA
4.	Urine	Glucose	Reflectance Photometry – Dip stick- Glucose Oxidase/ Peroxidase	Negative to ++++	NA
5.	Urine	Albumin	Sulpho salicylic Acid Method	Negative to ++++	NA
6.	Urine	Albumin	Reflectance Photometry – Dip stick – Tetrabromphenol blue	Negative to ++++	NA
7.	Urine	Ketones	Rothera's Test	Negative to +++	NA
8.	Urine	pH	Reflectance Photometry – Dip stick – Methyl Red and bromothymol blue	5.0 – 9.0	NA
9.	Urine	Bile Salts	Hay's test	Qualitative	NA
10.	Urine	Bile Pigments	Fouchet' s Method	Qualitative	NA
11.	Urine	Urobilinogen	Ehrlich - Aldehyde method	Qualitative	NA
12.	Urine	Urobilinogen	Reflectance Photometry – Dip stick – Ehrlich Reaction	Qualitative	NA
13.	Urine	Occult Blood or Hemoglobin	Standard Guaiac Method	Negative to +++	NA
14.	Urine	Leucocyte	Reflectance Photometry – Dip stick - Esterase	Negative to + + +	NA
15.	Urine	Bilirubin	Reflectance Photometry – Dip stick – Diazotized dichloroaniline	Negative to + + +	NA

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16.	Urine	Nitrite	Reflectance Photometry – Dip stick – p-arsanilic acid	Negative - Positive	NA
17.	Urine	Microscopic Examination	Microscopy	Qualitative	NA
18.	Stool	Stool Routine	Macroscopic / Microscopic	Qualitative	NA
19.	Stool	Occult Blood or Hemoglobin	Standard Guaiac Method	Qualitative	NA

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HAEMATOLOGY & IMMUNOHAEMATOLOGY

1.	K2 EDTA Whole Blood	Total White Blood Cell Count	Electrical Impedance	0.0 – 400.0 x 10 ³ /μL	2.0
2.	K2 EDTA Whole Blood	Red Blood Cell (RBC) count	Electrical Impedance	0.0– 8.0 x 10 ⁶ /μL	1.0
3.	K2 EDTA Whole Blood	Platelet Count	Electrical Impedance	0.0-3000 x 10 ³ /μL	2.4
4.	K2 EDTA Whole Blood	Hemoglobin	Photometry (cyanmethemoglobin method)	0.0-25.0 g/dL	0.9
5.	K2 EDTA Whole Blood	Haematocrit	Electrical Impedance	2.0 – 67.0%	1.4
6.	K2 EDTA Whole Blood	Red Blood Cell Indices MCV	Derivation	NA	1.2
7.	K2 EDTA Whole Blood	Red Blood Cell Indices MCH	Derivation	NA	1.4
8.	K2 EDTA Whole Blood	Red Blood Cell Indices MCHC	Derivation	NA	1.8
9.	K2 EDTA Whole Blood	Differential Count	VCS technology / ACV technology / Microscopy/ Leishman Stain		
		Neutrophils %	VCS technology / ACV technology / Microscopy/ Leishman Stain	1 – 100%	1.7
		Lymphocytes %	VCS technology / ACV technology / Microscopy/ Leishman Stain	1 – 100%	4.0

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		Eosinophils %	VCS technology / ACV technology / Microscopy/ Leishman Stain	1 – 100%	12.0
		Monocytes %	VCS technology / ACV technology / Microscopy/ Leishman Stain	1 – 100%	9.2
		Basophils %	VCS technology / ACV technology / Microscopy/ Leishman Stain	1 – 100%	67.1
10.	K2 EDTA Whole Blood	Absolute Neutrophil Count	VCS technology / ACV technology / Microscopy/ Leishman Stain	0.00-400 x 10 ³ /μL	2.8
11.	K2 EDTA Whole Blood	Absolute Lymphocyte Count	VCS technology / ACV technology / Microscopy/ Leishman Stain	0.00-400 x 10 ³ /μL	4.4
12.	K2 EDTA Whole Blood	Absolute Eosinophil Count	VCS technology / ACV technology / Microscopy/ Leishman Stain	0.00-400 x 10 ³ /μL	9.2
13.	K2 EDTA Whole Blood	Absolute Monocyte Count	VCS technology / ACV technology / Microscopy/ Leishman Stain	0.00-400 x 10 ³ /μL	9.4
14.	K2 EDTA Whole Blood	Absolute Basophil Count	VCS technology / ACV technology / Microscopy/ Leishman Stain	0.00-400 x 10 ³ /μL	67.4
15.	K2 EDTA Whole Blood	Peripheral Smear Study	Microscopy/ Leishman Stain	Qualitative	NA
16.	K2 EDTA Whole Blood	Red Cell Distribution Width (RDW)	Derivation	NA	1.9

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17.	K2 EDTA whole blood	Reticulocyte %	Microscopy/ New Methylene Blue Stain	NA	NA
18.	Citrated Whole Blood (4NC) (Pro-Evacuated)	Erythrocyte Sedimentation Rate (ESR)	Automated Sedimentation	0 – 140 mm	12.3
19.	Citrated Plasma (3.2% Sodium Citrate Vacutainer Tube)	Prothrombin Time (PT)	Clotting – Nephelometry	8.0-115 Seconds	4.0
20.	Citrated Plasma (3.2%) Sodium Citrate	Activated Partial Thromboplastin Time (APTT)	Clotting – Nephelometry	5.5-113	3.2
21.	Thick Wet Mount Preparation	Smear for Microfilaria (MF)	Microscopy/1% Methylene Blue/	Qualitative	NA
22.	Citrated Blood	Wet mount preparation for Microfilaria (MF)	Microscopy/1% Methylene Blue	Qualitative	NA
23.	K2 EDTA Whole Blood	Smear for Malarial Parasite (MP)	Microscopy/ Leishmann's Stain/ Giemsa Stain/ Card Method	Qualitative	NA
24.	K2 EDTA Whole Blood	Sickle cells	Microscopy/ Sodium Meta Bi Sulfite	Qualitative	NA
25.	K2 EDTA Whole Blood	Blood Grouping & Rh Typing	Slide & Tube Agglutination Method (Reverse & Forward)	Qualitative	NA

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MICROBIOLOGY & SEROLOGY

1.	Any Clinical Specimen / Tissue Biopsy / Body Fluids Received For Bacterial Investigations.	Gram's stain	Manual/Microscopy	Qualitative	NA
2.	Any Clinical Specimen / Tissue Biopsy / Body Fluids Received For Bacterial Investigations.	AFB stain	Ziehl Neelsen stain/ Manual / Microscopy	Qualitative	NA
3.	Any Clinical Specimen / Tissue Biopsy / Body Fluids Received For Bacterial Investigations.	KOH-Calcofluor white stain	Fluorescence stain/ Manual/Microscopy	Qualitative	NA
4.	Any Clinical Specimen / Tissue Biopsy / Body Fluids Received For Bacterial Investigations.	Giemsa stain	Manual/Microscopy	Qualitative	NA
5.	Any Clinical Specimen / Tissue Biopsy / Body Fluids Received For Bacterial Investigations.	Bacterial Culture & sensitivity	Culture –Aerobic/ Anaerobic Sensitivity for Aerobic bacteria-Disc diffusion	Qualitative except for urine and Conjunctival swab which are semi-Quantitative.	NA

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6.	Any Clinical Specimen / Tissue Biopsy / Body Fluids Received For Bacterial Investigations.	Fungal Culture	Culture Aerobic	Qualitative	NA
7.	Any Clinical Specimen / Tissue Biopsy / Body Fluids Received For Bacterial Investigations.	Acanthamoeba culture	Non-nutrient agar over laid with <i>E. coli</i>	Qualitative	NA
8.	Serum	Rapid plasma Reagin (RPR)	Slide flocculation	Semi- Quantitative Neat- 1:32	NA
9.	Serum	Treponema pallidum Hemagglutination (TPHA)	Micro haemagglutination	Semi Quantitative 1:80 - 1:1280	NA
10.	Serum	Rheumatoid arthritis factor (RA factor)	Nephelometry	Quantitative (<10.0-100.0IU/ml)	3.8
11.	Serum	C Reactive Protein (CRP)	Nephelometry	Quantitative (<0.5-320mg/l)	3.1
12.	Serum	Antibodies to Brucella	Tube agglutination	Semi- quantitative 1:10 - 1:160	NA
13.	Serum	Antibodies to HIV - 1 & 2	Immuno-Filtration method	Qualitative	NA
14.	Serum	Antibodies to HIV - 1 & 2	Immuno Concentration Method	Qualitative	NA
15.	Serum	Antibodies to HIV - 1 & 2, HIV-1 p24 ag	ELISA	Qualitative	9.5
16.	Serum	Antibodies to HIV - 1 & 2	Western Blot	Qualitative	NA
17.	Serum	HBs Ag	Immuno Filtration/ Immunochromatography	Qualitative	NA

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18.	Serum	HBsAg	ELISA	Qualitative	7.8
19.	Serum	Anti HBs antibodies	ELISA	Quantitative (10-1000 mIU/ml)	11.9
20.	Serum	Antibodies to HCV	Immunofiltration method	Qualitative	NA
21.	Serum	Antibodies to HCV	ELISA	Qualitative	8.8
22.	Serum	Antinuclear antibody	Indirect Immuno fluorescence	Semi- Quantitative 1:80 – 1:160	NA
23.	Serum	Antinuclear antibody	ELISA	Qualitative	9.6
24.	Serum	Antibodies against specific antigen -ds DNA, Histones, ribosomal, P-proteins , nRNP / Sm, SS-A, SS-B, Scl-70	ELISA	Qualitative	NA
25.	Serum	IgG antibodies to cANCA(Proteinase3)	ELISA	Quantitative (2 – 200 RU/ml)	10.9
26.	Serum	IgG antibodies to pANCA(Myeloperoxidase)	ELISA	Quantitative (2 – 200 RU/ml)	10.2
27.	Serum	IgG Antibodies to Aquaporin -4 (NMO)	Indirect Immuno Fluorescence	Semi- Quantitative	NA

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HISTOPATHOLOGY

1.	Small Sized Specimens (3mm-5mm) - OCULAR	Grossing, Processing, Paraffin Embedding, Microtomy, H&E Staining Conventional	Light Microscopy	Descriptive	NA
2.	Medium Sized Specimens (10mm) - OCULAR	Grossing, Processing, Paraffin Embedding, Microtomy, H&E Staining Conventional	Light Microscopy	Descriptive	NA
3.	Large Sized Specimens (> 20mm) - OCULAR	Grossing, Processing, Paraffin Embedding, Microtomy, H&E Staining Conventional	Light Microscopy	Descriptive	NA
4.	Cell Block	Processing, Microtomy, H&E Staining (Conventional)	Light Microscopy	Descriptive	NA
5.	Frozen Section	Grossing, Processing, Crysectioning, Staining, (H&E) (Conventional)	Light Microscopy	Descriptive	NA

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6.	Ocular Tissues, Paraffin Blocks, Unstained Slides	Periodic Acid Schiff Stain	Light Microscopy	Descriptive	NA
		Alcian Blue (pH 2.5)	Light Microscopy	Descriptive	NA
		Congo Red (Benhold's Method)	Light Microscopy	Descriptive	NA
		Gomoris One Step Trichrome	Light Microscopy	Descriptive	NA
		Grams (Brown-Hopps Method)	Light Microscopy	Descriptive	NA
		Acid Fast Bacilli	Light Microscopy	Descriptive	NA
		Grocott's Methanamine Silver Nitrate (GMS)	Light Microscopy	Descriptive	NA
		Alizarin Red	Light Microscopy	Descriptive	NA
		Bleaching	Light Microscopy	Descriptive	NA
		Perl's Iron	Light Microscopy	Descriptive	NA

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CYTOPATHOLOGY

1.	Aspirate-Aqueous, Vitreous, Sub Retinal Fluid, Cyst, Other Aspirates	Cytologic Exam	As Per SOP, Light Microscopy and Interpretation	Descriptive	NA
2.	Smear Cytology – Lid, Cornea, Conjunctiva	Imprint Smear Preparation and Cytologic Examination	As Per SOP, Light Microscopy and Interpretation	Descriptive	NA
3.	Intraocular Lens (IOL) Cytology	Cytologic Examination	As Per SOP, Light Microscopy and Interpretation	Descriptive	NA

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