



NABL

National Accreditation Board for Testing and Calibration Laboratories

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

CERTIFICATE OF ACCREDITATION

**SRI NATHELLA SAMPATHU CHETTY CLINICAL LABORATORY
(A 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 (Old No.18), College Road, Chennai, 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-0094

Issue Date 14/08/2015



Valid Until 13/08/2017

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. Ashutosh Sharma
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

श्री नाथ्येला संपत्तु चेट्टी क्लिनिकल लेबोरेटरी
(ए यूनिट ऑफ मेडिकल रिसर्च फाउन्डेशन)

का मूल्यांकन और प्रत्यायन निम्न मानक के अनुसार

आई.एस.ओ. 15189:2012

“चिकित्सा प्रयोगशालाएँ-गुणवत्ता और सक्षमता की आवश्यकताएँ”

चेन्नई, 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-0094

जारी करने की तिथि 14/08/2015



वैधता की तिथि 13/08/2017

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 प्रबन्धक

अनिल रेलिया

अनिल रेलिया
निदेशक

आशुतोष शर्मा

प्रो. आशुतोष शर्मा
अध्यक्ष



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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
I.	CLINICAL BIOCHEMISTRY				
1.	PLASMA	Glucose	Hexokinase - glucose 6 phosphate dehydrogenase	1.0 - 500 mg/dL	3.6
2.	PLASMA	Urea	Urease- GLDH	1.0 - 150 mg/dL	8.0
3.	PLASMA	Creatinine	Jaffe - Kinetic	0.05 - 20 mg/dL	7.4
4.	PLASMA	Cholesterol, Total	CHO/DEA-HCl/AAP Enzymatic	50 - 600 mg/dL	4.4
5.	PLASMA	Sodium	ISE - Direct	40 - 200 mmole /L	1.1
6.	PLASMA	Potassium	ISE - Direct	1.5 - 15 mmole /L	1.3
7.	PLASMA	Chloride	ISE - Direct	50 - 200 mmole/L	2.0
8.	SERUM	Calcium, Total	OCPC / End Point	5 - 15 mg/dL	2.9
9.	SERUM	Phosphorus	Phosphomolybdate / End point	0.31 - 9 mg/ dL	4.8
10.	SERUM	Bilirubin, Total	Diazo - caffeine	0.1 - 2.5 mg/dL	10.9
11.	SERUM	Bilirubin, Direct	Diazo	0.5 - 16.0 mg/dL	7.6
12.	SERUM	Total Proteins	Biuret	2 - 12 g/ dL	8.7

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13.	SERUM	Albumin	BCP	0.6 - 8.0 g/ dL	5.9
14.	SERUM	Alkaline Phosphatase	PNPP - AMP buffer	3.0 - 1000 U/L	11.0
15.	SERUM	Alanine Amino Transferase	IFCC with P5P	2.0 - 1000 U/L	7.0
16.	SERUM	HDL Cholesterol	Direct	10 - 150 mg/dL	6.2
17.	PLASMA (FASTING)	Triglyceride	Enzymatic	15 - 1000 mg/dL	5.2
18.	SERUM	Aspartic amino Transferase	IFCC with P5P	2.0 - 1000 U/L	5.5
19.	SERUM	Angiotensin Converting Enzyme	FAPGG - UV - Kinetic	8.0 - 120 U/L	15.7
II.	<u>CLINICAL PATHOLOGY</u>				
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

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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	Ketones	Reflectance Photometry – Dip stick – Nitroprusside Method	Negative to +++	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

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
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
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	Manual Method – Standard Guaiac Method	Qualitative	NA
III. HAEMATOLOGY & IMMUNOHAEMATOLOGY					
1.	K2 EDTA WHOLE BLOOD (BD VACCUTA-INER TUBE)	Total White Blood Cell Count	Cell Counter – Electrical Impedance	0.0 – 400.0 x 10 ³ /μL	2.1

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
2.	K2 EDTA WHOLE BLOOD (BD VACCUTA-INER TUBE)	Red Blood Cell (RBC) count	Cell Counter – Electrical Impedance	0.0 – 8.0 x 10 ⁶ /μL	1.3
3.	K2 EDTA WHOLE BLOOD (BD VACCUTA-INER TUBE)	Platelet Count	Cell Counter – Electrical Impedance	0.0 – 3000 x 10 ³ /μL	2.5
4.	K2 EDTA WHOLE BLOOD (BD VACCUTA-INER TUBE)	Hemoglobin	Cell Counter – Photometry	0.0 – 25.0 g/dL	1.4
5.	K2 EDTA WHOLE BLOOD (BD VACCUTA-INER TUBE)	Haematocrit	Cell Counter – Electrical Impedance	2.0 – 67.0 %	1.5

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6.	K2EDTA WHOLE BLOOD (BD VACCUTA-INER TUBE)	Red Blood Cell Indices MCV	Derivation	NA	1.0
7.	K2EDTA WHOLE BLOOD (BD VACCUTA-INER TUBE)	Red Blood Cell Indices MCH	Derivation	NA	1.4
8.	K2EDTA WHOLE BLOOD (BD VACCUTA-INER TUBE)	Red Blood Cell Indices MCHC	Derivation	NA	1.8
9.	K2EDTA WHOLE BLOOD (BD VACCUTA-INER TUBE)	Differential Count	Microscopy / Leishman Stain	NA	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
10.	K2EDTA BLOOD (BD VACCUTA-INER TUBE)	Absolute Eosinophil Count	Microscopy/ Cell Counter	0 - 400 x 10 ³ cells/ μ L	10.5
11.	K2 EDTA WHOLE BLOOD (BD VACCUTA-INER TUBE)	Peripheral Smear Study	Microscopy/ Leishman Stain	Qualitative	NA
12.	K2EDTA WHOLE BLOOD (BD VACCUTA-INER TUBE)	Reticulocyte Count	Manual / Microscopy	NA	NA
13.	CITRATED WHOLE BLOOD (4NC) (PRO-EVACUATED PLEXIGLASS TUBES)	Erythrocyte Sedimentation Rate (ESR)	Automated Sedimentation	0 - 140 mm	13.3

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
14.	CITRATED PLASMA (3.2% SODIUM CITRATE VACCUTA-INER TUBE)	Prothrombin Time	Clotting – Electro Mechanical Method	5 – 999 Seconds	5.5
15.	CITRATED PLASMA (3.2% SODIUM CITRATE VACCUTA-INER TUBE)	Activated Partial Thromboplastin Time	Clotting – Electro Mechanical Method	5 – 999 Seconds	6.2
16.	THICK WET MOUNT PREPRATION	Smear for MF	Microscopy / 1 % Methylene blue	Qualitative	NA
17.	CITRATED BLOOD	Wet Mount Preparation for MF	Microscopy / 1 % Methylene blue	Qualitative	NA
18.	K2 EDTA WHOLE BLOOD (BD VACCUTA-INER TUBE)	Smear for MP	Microscopy / Leishmann's Stain / Giemsa stain	Qualitative	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
19.	K2 EDTA WHOLE BLOOD (BD VACCUTA-INNER TUBE)	Sickling Test	Microscopy/ Sodium Meta bi Sulfite	Qualitative	NA
20.	K2 EDTA WHOLE BLOOD (BD VACCUTA-INNER TUBE)	Blood Grouping & Rh	Slide & Tube Agglutination Method (Reverse & Forward)	Qualitative	NA
IV.	<u>MICROBIOLOGY & SEROLOGY</u>				
1.	ANY CLINICAL SPECIMEN / TISSUE BIOPSY / BODY FLUIDS RECEIVED FOR BACTERIAL INVESTIGATIONS	Gram's stain	Manual / Microscopy	Qualitative	NA

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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 FUNGAL/ ACANTHAM-OEBA INVESTIGATIONS	KOH - Calcofluor white stain	Fluorescence stain / Manual / Microscopy	Qualitative	NA

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4.	ANY CLINICAL SPECIMEN / TISSUE BIOPSY / BODY FLUIDS RECEIVED FOR ACANTHAMO EBA AND CYTOLOGICAL INVESTIGATIONS	Giemsa stain	Manual/Microscopy	Qualitative	NA
5.	ANY CLINICAL SPECIMEN / TISSUE BIOPSY / BODY FLUIDS OTHER THAN BLOOD 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 FUNGAL INVESTIGATION	Fungal Culture	Culture Aerobic	Qualitative	NA
7.	CORNEAL SCRAPING/ CORNEAL BIOPSY/ CONTACT LENS SOLUTION FOR ACANTHAM-OEBA CULTURE	Acanthamoeba culture	Non-nutrient agar over laid with <i>Escherichia. coli</i>	Qualitative	NA
8.	SERUM	Rapid plasma Reagin (RPR)	Slide flocculation	Semi- Quantitative Neat- 1:32	NA
9.	SERUM	<i>Treponema pallidum</i> Hemagglutination (TPHA)	Micro haemagglutination	Semi Quantitative 1:80 - 1:1280	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
10.	SERUM	Rheumatoid arthritis factor (RA factor)	Nephelometry	Quantitative (<10.0-100.0 IU/ml)	3.7
11.	SERUM	C Reactive Protein (CRP)	Nephelometry	Quantitative (<0.5-320 mg/l)	3.0
12.	SERUM	Antibodies to Brucella	Tube agglutination	Semi-quantitative 1:10 - 1:160	NA
13.	SERUM	Antibodies to HIV - 1&2	TRI-DOT method	Qualitative	NA
14.	SERUM	Antibodies to HIV - 1&2	Rapid Immuno Concentration Method	Qualitative	NA
15.	SERUM	Antibodies to HIV - 1 & 2, HIV-1 p24 Antigen	ELISA	Qualitative	7.2
16.	SERUM	Antibodies to HIV - 1&2	Western Blot	Qualitative	NA
17.	SERUM	HBs Ag	Immuno filtration / Immunochromatography	Qualitative	NA
18.	SERUM	HBsAg	ELISA	Qualitative	6.9
19.	SERUM	Anti HBs antibodies	ELISA	Quantitative (10-1000 mIU/ml)	8.5
20.	SERUM	Antibodies to HCV	TRI - DOT method	Qualitative	NA

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21.	SERUM	Antibodies to HCV	ELISA	Qualitative	8.3
22.	SERUM	Antinuclear Antibody	Indirect Immuno fluorescence	Semi- Quantitative 1:80 – 1:160	NA
23.	SERUM	Antinuclear Antibody	ELISA	Qualitative	7.9
24.	SERUM	Antibodies against specific antigen -ds DNA, Histones, ribosomal, P-proteins , nRNP / Sm, SS-A, SS-B, Scl-70	ELISA	Qualitative	10.5
25.	SERUM	IgG antibodies to cANCA (Proteinase3)	ELISA	Quantitative (2 – 200 RU/ml)	6.9
26.	SERUM	IgG antibodies to pANCA (Myeloperoxidase)	ELISA	Quantitative (2 – 200 RU/ml)	6.1
27.	SERUM	Antibodies Aquaporin -4 (NMO)	Indirect Immuno fluorescence	Semi- Quantitative	NA
V. HISTOPATHOLOGY					
1.	SMALL SIZED SPECIMENS (3MM - 5MM)	Grossing, Processing, paraffin embedding, microtomy, H&E staining (Conventional)	As per sop light microscopy with interpretation.	Descriptive	NA

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2.	MEDIUM SIZED SPECIMENS (10MM)	Grossing, Processing, paraffin embedding, microtomy, H&E staining (Conventional)	As per sop light microscopy with interpretation	Descriptive	NA
3.	LARGE SIZED SPECIMENS (> 20MM)	Grossing, Processing, paraffin embedding, microtomy, H&E staining (Conventional)	As per sop light microscopy with interpretation	Descriptive	NA
4.	OTHERS - TISSUE AND CELL BLOCK OF FLUIDS	Processing, microtomy, H&E staining (Conventional)	As per sop light microscopy with interpretation	Descriptive	NA
5.	FROZEN SECTION	Grossing, Processing, crysectioning, staining, (H&E) (Conventional)	As per sop light microscopy with interpretation	Descriptive	NA
6.	OCULAR TISSUES, PARAFFIN BLOCKS, UNSTAINED SLIDES	Periodic acid Schiff stain	As per sop light microscopy with interpretation	Descriptive	NA
		Alcian blue (pH 2.5)	As per sop light microscopy with interpretation	Descriptive	NA
		Congo Red (Benhold's Method)	As per sop light microscopy with interpretation	Descriptive	NA

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		Gomoris One Step Trichrome	As per sop light microscopy with interpretation	Descriptive	NA
		Grams (Brown - Hopps Method)	As per sop light microscopy with interpretation	Descriptive	NA
		Acid fast bacilli	As per sop light microscopy with interpretation	Descriptive	NA
		Grocott's methanamine silver nitrate (GMS)	As per sop light microscopy with interpretation	Descriptive	NA
		Alizarin Red	As per sop light microscopy with interpretation	Descriptive	NA
		Bleaching	As per sop light microscopy with interpretation	Descriptive	NA
		Perl's iron	As per sop light microscopy with interpretation	Descriptive	NA
7.	FROZEN SECTION	Grossing, processing, cryosection staining with Oil 'O' red	As per sop light microscopy with interpretation	Descriptive	NA

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NABL

SCOPE OF ACCREDITATION

Laboratory Sri Nathella Sampathu Chetty Clinical Laboratory (A Unit of Medical Research Foundation), No. 41 (Old No.18), College Road, Chennai, Tamil Nadu

Accreditation Standard ISO 15189: 2012

Field Medical Testing

Issue Date 14.08.2015

Certificate Number M-0094

Valid Until 13.08.2017

Last Amended on -

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
VI. CYTOPATHOLOGY					
1.	ASPIRATES-AQUEOUS ASPIRATE, VITREOUS ASPIRATE, SUB RETINAL FLUID	Cytospin, Centrifugation, smear preparation, H&E and MGG staining	As per sop light microscopy with interpretation	Descriptive	NA
2.	SMEAR CYTOLOGY - LID, CORNEA, CONJUNCTIVAL	Impression smear preparation, H&E and MGG staining	As per sop light microscopy with interpretation	Descriptive	NA
3.	IOL CYTOLOGY	H&E and MGG staining	As per sop light microscopy with interpretation	Descriptive	NA
4.	LENS ASPIRATE, ASPIRATE FROM CYST, ANY LESION FROM OPHTHALMIC SPECIMENS	H&E and MGG staining	As per sop light microscopy with interpretation	Descriptive	NA

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