



NABL

National Accreditation Board for Testing and Calibration Laboratories

Department of Science & Technology, India

CERTIFICATE OF ACCREDITATION

SRI NATHELLA SAMPATHU CHETTY CLINICAL LABORATORY, MEDICAL RESEARCH FOUNDATION

has been assessed and accredited in accordance with the standard

ISO 15189:2007

"Medical Laboratories - Particular requirements for quality and competence"

for its facilities at

No. 41 (Old No. 18), College Road, Chennai

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 14/08/2013



Valid Until 13/08/2015

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

Devaki Devi

Devaki Devi Mandava
Convenor

Anil Relia

Anil Relia
Director

Dr T. Ramasami

Dr T. Ramasami
Chairman



रा.प्र.प्र.बो.

राष्ट्रीय परीक्षण और अंशशोधन
प्रयोगशाला प्रत्यायन बोर्ड
विज्ञान एवं प्रौद्योगिकी विभाग, भारत

प्रत्यायन प्रमाण-पत्र

श्री नाथ्येला संपत्तु चेट्टी क्लिनिकल लैबोरेटरी,
मेडिकल रिसर्च फाउन्डेशन
का मूल्यांकन और प्रत्यायन निम्न मानक के अनुसार

आई.एस.ओ. 15189:2007

“चिकित्सा प्रयोगशालाएँ-गुणता और विश्वसनीयता के लिए विशेष आवश्यकताएं”

चेन्नई

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 14/08/2013



वैधता की तिथि 13/08/2015

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

देवकी देवी

देवकी देवी मंडवा
संयोजक

अनिल रेलिया

अनिल रेलिया
निदेशक

डा. टी. रामसामी

डा. टी. रामसामी
अध्यक्ष



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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV %
<u>I. CLINICAL BIOCHEMISTRY</u>					
1.	PLASMA	Glucose	Hexokinase	0 - 500 mg/dL	6.0
2.	PLASMA	Urea	Urease- GLDH	0 - 150 mg/dL	12.0
3.	PLASMA	Creatinine	Modified Jaffe – Kinetic	0 - 20 mg/dL	7.6
4.	SERUM	Cholesterol, Total	DEA-HCl/AAP Enzymatic	50-600 mg/dL	6.4
5.	SERUM	HDL Cholesterol	PEG – Cholesterol oxidase	3 – 150 mg/dl	9.6
6.	SERUM	Triglycerides	Enzymatic	15 -1000 mg/dL	8.8
7.	PLASMA	Sodium	ISE –Direct	100- 200 mEq/L	2.6
8.	PLASMA	Potassium	ISE –Direct	1.7 - 15 mEq/L	3.3
9.	PLASMA	Chloride	ISE –Direct	68 - 112 mEq/L	4.1
10.	SERUM	Calcium, Total	OCPC / End Point	5 – 15 mg/dL	4.1
11.	SERUM	Phosphorus	Phosphomolybdate / End point	0 - 9 mg/ dL	6.3
12.	SERUM	Total Proteins	Biuret Method	2 - 12 g/ dL	3.7
13.	SERUM	Albumin	BCP-dye binding method	0.6 - 8.0 g/ dL	4.8
14.	SERUM	Alkaline Phosphatase	PNPP - AMP buffer	11 -1000 U/L	13.0
15.	SERUM	Alanine amino Transferase	UV Kinetic with P5P	0 – 1000 U/L	8.5

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16.	SERUM	Aspartic amino Transferase	UV Kinetic with P5P	0 – 1000 U/L	8.5
17.	SERUM	Bilirubin, Total	Jendrassik Grof	0.1- 25 mg/dL	8.7
18.	SERUM	Bilirubin, Direct	Jendrassik Grof	0.05 – 16 mg/dL	16.0
19.	SERUM	Angiotensin converting enzyme	UV- Kinetic	8 -251 U/L	12.0
20.	PLASMA/URINE	Amino acid profile	HPLC- OPA method UV detector	100 pmole to 1 nmole.	
		1.Serine			8.1
		2.Histidine			8.8
		3.Glycine			9.3
		4.Threonine			9.4
		5.Alanine			9.4
		6.Arginine			9.0
		7.Tyrosine			9.0
		8.Valine			8.4
		9.Methionine			9.8
		10.Phenylalanine			9.7
		11.Isoleucine			8.1
		12.Leucine			9.4
		13.Lysine			8.5

II. CLINICAL PATHOLOGY

1.	STOOL	Stool Routine	Macroscopic / Microscopic	Qualitative	NA
2.	STOOL	Occult Blood or Hemoglobin	Manual Method – Standard Guaiac Method	Qualitative	NA
3.	URINE	PH	Reflectance Photometry – Dip stick – Methyl Red and bromothymol blue	5.0 – 9.0	NA

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4.	URINE	Specific Gravity	Reflectance Photometry – Dip stick – Bromthymol blue	1.000 – 1.030	NA
5.	URINE	Glucose	Benedicts qualitative method	Negative - ++++	NA
6.	URINE	Glucose	Reflectance Photometry – Dip stick- Glucose Oxidase/ Peroxidase	Negative - ++++	NA
7.	URINE	Albumin	Sulpho salicylic Acid Method	Negative - ++++	NA
8.	URINE	Albumin	Reflectance Photometry – Dip stick – Tetrabromphenol blue	Negative - ++++	NA
9.	URINE	Ketones	Rothera's Test	Negative - +++	NA
10.	URINE	Ketones	Reflectance Photometry – Dip stick – Nitroprusside	Negative - +++	NA
11.	URINE	Bile Salts	Hay's test	Qualitative	NA
12.	URINE	Bile Pigments	Fouchet' s Method	Qualitative	NA
13.	URINE	Urobilinogen	Ehrlich - Aldehyde method	Qualitative	NA
14.	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 %
15.	URINE	Occult Blood or Hemoglobin	Standard Guaiac Method	Negative - +++	NA
16.	URINE	Leucocyte	Reflectance Photometry – Dip stick – Esterase	Negative - +++	NA
17.	URINE	Bilirubin	Reflectance Photometry – Dip stick – Diazotized dichloroaniline	Negative - +++	NA
18.	URINE	Nitrite	Reflectance Photometry – Dip stick – p-arsanilic acid	Negative - Positive	NA
19.	URINE	Microscopic examination	Microscopy	Qualitative	NA

III. HAEMATOLOGY & IMMUNOHAEMATOLOGY

1.	K2 EDTA WHOLE BLOOD (BD VACCUAINER TUBE)	Total White Blood Cell Count	Cell Counter – Electrical Impedance	0.4 – 120 X10 ³ /μL	5.0
2.	K2 EDTA WHOLE BLOOD (BD VACCUAINER TUBE)	Red Blood Cell (RBC) count	Cell Counter – Electrical Impedance	0.3– 8.0 X10 ⁶ /μL	3.0
3.	K2 EDTA WHOLE BLOOD (BD VACCUAINER TUBE)	Differential count	Microscopy/Leishman Stain	-	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV %
4.	K2 EDTA WHOLE BLOOD (BD VACCUTAINER TUBE)	Peripheral smear Study	Microscopy/ Leishman Stain	Qualitative	NA
5.	CITRATED WHOLE BLOOD (4NC) (PRO-EVACUATED PLEXIGLASS TUBES)	Erythrocyte Sedimentation Rate (ESR)	Automated Sedimentation	0 – 140mm	10.0
6.	K2 EDTA WHOLE BLOOD (BD ACCUTAINER TUBE)	Platelet Count	Cell Counter – Electrical Impedance	10.0– 1000.0 x10 ³ /μL	10.0
7.	K2EDTA BLOOD (BD ACCUTAINER TUBE)	Absolute Eosinophil Count	Microscopy/ Cell Counter	-	-
8.	K2EDTA WHOLE BLOOD (BD VACCUTAINER TUBE)	Reticulocyte Count	Manual / Microscopy	-	-
9.	K2EDTA WHOLE BLOOD (BD VACCUTAINER TUBE)	Red blood Cell Indices (MCV, MCH, MCHC)	Derivation	-	-

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10.	K2 EDTA WHOLE BLOOD (BD VACCUTAINER TUBE)	Haematocrit	Cell Counter – Electrical Impedance	2.0 – 67.0%	4.0
11.	K2 EDTA WHOLE BLOOD (BD VACCUTAINER TUBE)	Hemoglobin	Cell Counter – Photometry	1.3- 24 g/dL	2.5
12.	K2 EDTA WHOLE BLOOD (BD VACCUTAINER TUBE)	Blood Grouping & Rh	Slide & Tube Agglutination Method	Qualitative	NA
13.	CITRATED PLASMA (3.2% SODIUM CITRATE VACCUTAINER TUBE)	Activated Partial Thromboplastin Time	Clotting – Electro Mechanical Method	5 – 999 seconds	7.6
14.	CITRATED PLASMA (3.2% SODIUM CITRATE VACCUTAINER TUBE)	Prothrombin Time	Clotting – Electro Mechanical Method	5 – 999 Seconds	6.5
15.	K2 EDTA WHOLE BLOOD CITRATED BLOOD (3.2% SODIUM CITRATE VACCUTAINER TUBE)	Smear for MF	Microscopy/ Leishmann's Stain, 1% Methylene blue	Qualitative	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV %
16.	K2 EDTA WHOLE BLOOD (BD ACCUTAINER TUBE)	Smear for MP	Microscopy / Leishmann's Stain/Giemsa stain	Qualitative	NA
17.	K2 EDTA WHOLE BLOOD (BD VACCUTAINER TUBE)	Sickle cells	Microscopy/ Sodium Meta bi Sulfit	Qualitative	NA
IV. 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 FUNGAL/ ACANTHAMOEBA INVESTIGATIONS	KOH-Calcofluor white stain	Fluorescence stain/ Manual/Microscopy	Qualitative	NA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV %
4.	ANY CLINICAL SPECIMEN / TISSUE BIOPSY / BODY FLUIDS RECEIVED FOR ACANTHAMOEBA 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
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 ACANTHAMOEBA CULTURE	Acanthamoeba culture	Non-nutrient agar over laid with <i>Escherichia. coli</i>	Qualitative	NA

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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
10.	SERUM	Rheumatoid arthritis factor (RA factor)	Nephelometry	quantitative (<10.0-100.0 IU/ml)	1.0
11.	SERUM	C Reactive Protein (CRP)	Nephelometry	quantitative (<0.5-320mg/l)	4.4
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	10.9
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	9.4
19.	SERUM	Anti HBs antibodies	ELISA	Quantitative (10-1000mIU/ml)	11.1

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S.No.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV %
20.	SERUM	Antibodies to HCV	TRI-DOT method	Qualitative	NA
21.	SERUM	Antibodies to HCV	ELISA	Qualitative	11.4
22.	SERUM	Antinuclear antibody	Indirect Immuno fluorescence	Semi- quantitative 1:80 – 1:160	NA
23.	SERUM	Antinuclear antibody	ELISA	Qualitative	9.9
24.	SERUM	Antibodies against specific antigen -ds DNA, Histones, ribosomal, P-proteins , nRNP / Sm, SS-A,SS-B, Scl-70	ELISA	Qualitative	13.5
25.	SERUM	IgG antibodies to cANCA (Proteinase3)	ELISA	Quantitative (2 – 200 RU/ml)	8.5
26.	SERUM	IgG antibodies to pANCA (Myeloperoxidase)	ELISA	Quantitative (2 – 200 RU/ml)	8.1
<u>V. HISTOPATHOLOGY</u>					
1.	SMALL SIZED SPECIMEN (3MM-5MM)	HPE	Microscopy	Qualitative	NA
2.	MEDIUM SIZED SPECIMEN (10MM)	HPE	Microscopy	Qualitative	NA
3.	LARGE SIZED SPECIMEN (>20MM)	HPE	Microscopy	Qualitative	NA

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4.	OTHERS - TISSUE AND CELL BLOCK OF FLUIDS	HPE	Microscopy	Qualitative	NA
5.	FROZEN SECTION	HPE	Microscopy	Qualitative	NA
6.	SPECIAL STAINS PERIODIC ACID SCHIFF STAIN, ALCIAN BLUE (PH 2.5), CONGO RED (BENHOLD'S METHOD), GOMORIS ONE STEP TRICHROME, GRAMS (BROWN-HOPPS METHOD), ACID FAST BACILLI, GROCOTT'S METHANAMINE SILVER NITRATE (GMS), ALIZARIN RED, BLEACHING, PERL'S IRON, OIL 'O' RED	HPE	Microscopy	Qualitative	NA

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<u>VI. CYTOPATHOLOGY</u>					
1.	ASPIRATES AQUEOUS, VITREOUS, SUB RETINAL FLUID	Cytology	Microscopy	Qualitative	NA
2.	SMEAR CYTOLOGY – LID, CONJUNCTIVA, CORNEA	Impression cytology	Microscopy	Qualitative	NA
3.	IOL CYTOLOGY	Cytology	Microscopy	Qualitative	NA
4.	OTHER SPECIMENS	Cytology	Microscopy	Qualitative	NA

-X-X-X-X-X-X-X-X-X-X-X-X-

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