



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

CHENNAI

in the field of

MEDICAL TESTING

Certificate Number M-0094

Issue Date 04/08/2009

Valid Until 03/08/2011

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

Rajesh Maheshwari
Convenor

Dr B. Hari Gopal
Director

Dr T. Ramasami
Chairman



रा.प्र.प्र.बो.

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

प्रत्यायन प्रमाण-पत्र

श्री नाथेला सम्पत्तु चेष्टी क्लिनिकल लेबोरेटरी,
मेडिकल रिसर्च फाउंडेशन

का मूल्यांकन और प्रत्यायन निम्न मानक के अनुसार

आई.एस.ओ. 15189:2007

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

चेन्नई

में स्थित इसकी सुविधाओं के लिए

चिकित्सीय परीक्षण

के क्षेत्र में किया गया।

प्रमाण-पत्र संख्या चि- 0094
जारी करने की तिथि 04/08/2009

वैधता की तिथि 03/08/2011

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

राजेश माहेश्वरी

संयोजक

डा. बो. हरि गोपाल

निर्देशक

डा. टी. रामसामी

अध्यक्ष



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| S.No. | Product / Material of Test | Specific Test Performed | Test Method | Limit of its operation/ Range of Testing / Limits of Detection | CV % |
|--|----------------------------|-------------------------|---|--|------|
| I. <u>CLINICAL BIOCHEMISTRY</u> | | | | | |
| 1. | PLASMA | Glucose | Hexokinase-glucose-6phosphate Dehydrogenase method | 0 -500 mg/dl | 4.87 |
| 2. | PLASMA | Urea | Urease- GLDH | 0 - 150 mg/dl | 6.63 |
| 3. | PLASMA | Creatinine | Modified Jaffe - Kinetic | 0 - 20 mg/dl | 7.67 |
| 4. | PLASMA | Cholesterol, Total | DEA-HCl/AAP Enzymatic | 0 – 600 mg/dl | 3.63 |
| 5. | PLASMA | Sodium | Ion Sensing Electrode | 100- 200 mEq/L | 2.55 |
| 6. | PLASMA | Potassium | Ion Sensing Electrode | 2.3 - 6.6 mEq/l | 3.27 |
| 7. | PLASMA | Chloride | Ion Sensing Electrode | 68 -112 mEq/l | 3.12 |
| 8. | SERUM | Calcium, Total | CPC / End Point | 5 - 15 mg/dl | 3.52 |
| 9. | SERUM | Phosphorus | Phosphomolybdic UV/End point | 0 - 9 mg/dl | 6.3 |
| 10. | SERUM | Bilirubin, Total | Jendrosik Grof | 0 –.25 mg/dl | 8.72 |
| 11. | SERUM | Bilirubin, Direct | Jendrosik Grof | 0 – 20 mg/dl | 9 |
| 12. | SERUM | Total Proteins | Biuret Method | 2 –12 g/dl | 3.73 |
| 13. | SERUM | Albumin | BCP-dye binding method | 0.6 - 8 g/dl | 4.75 |
| 14. | SERUM | Alkaline Phosphatase | PNPP - DEA Method | 0-1000 U/l | 7.15 |

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| 15. | SERUM | Alanine amino Transferase | UV-kinetic method/IFCC | 0 - 1000 U/l | 5.13 |
| 16. | SERUM | HDL Cholesterol | Automated HDL cholesterol | 10 - 150 mg/dl | 7.44 |
| 17. | PLASMA (FASTING) | Triacylglyceride | LPL-GK-GPO | 0-1000 mg/dl | 8.84 |
| 18. | SERUM | Angiotensin converting enzyme | UV Determination | Upto 250 U/L | 8.4 |
| 19. | PLASMA | Amino acid profile | HPLC- OPA method | 1nmole | 12 |
| 20. | URINE | Amino acid profile | HPLC- OPA method | 1nmole | 12 |
| 21. | URINE | Inborn errors of metabolism – α Keto acid | Dinitro phenyl Hydrazine test | Qualitative | Positive / Negative |
| 22. | URINE | Inborn errors of metabolism – cystine | Cyanide nitro prusside test | Qualitative | Positive / Negative |
| 23. | URINE | Inborn errors of metabolism – Tyrosine | Million's test | Qualitative | Positive / Negative |
| 24. | URINE | Inborn errors of metabolism – carbohydrates | Molisch's test | Qualitative | Positive / Negative |
| 25. | URINE | Inborn errors of metabolism – reducing sugars | Benedict's test | Qualitative | Positive / Negative |

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|--------------------------------------|----------------------------|---|-------------------------------------|--|---------------------|
| 26. | URINE | Inborn errors of metabolism – homocystine | Silver diamino – nitroprusside test | Qualitative | Positive / Negative |
| 27. | URINE | Inborn errors of metabolism – phenyl Pyruvic acid | Ferric chloride test | Qualitative | Positive / Negative |
| II. <u>CLINICAL PATHOLOGY</u> | | | | | |
| 1. | STOOL | Motion Routine | Macroscopic/ Microscopic/ Chemical | Qualitative | NA |
| 2. | STOOL | Occult Blood or Hemoglobin | Manual Method – Benzidine Test | Qualitative | NA |
| 3. | URINE | Urine Routine | Automated – Reflectance method | Colour Appearance Specific gravity Reaction Bilirubin Nitrite Leucocytes Proteins Sugar Ketones Bile salts Bile pigments Blood Urobilinogen | NA |
| 4. | URINE | pH | Dip stick method | Qualitative | NA |
| 5. | URINE | Specific Gravity | Dip stick method | Qualitative | NA |

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| 6. | URINE | Glucose | Benedicts qualitative method | Nil-2% | NA |
| 7. | URINE | Glucose | Dip stick method | Nil-2% | NA |
| 8. | URINE | Albumin | Sulphosalicylic Acid Method | Nil - ++++ | NA |
| 9. | URINE | Albumin | Dip stick method | Nil - ++++ | NA |
| 10. | URINE | Acetone & Acetoacetic Acid | Rothera's Test | Nil - ++++ | NA |
| 11. | URINE | Acetone & Acetoacetic Acid | Dip stick method | Nil - ++++ | NA |
| 12. | URINE | Bile Salts | Hay's test | Qualitative | NA |
| 13. | URINE | Bile Pigments | Fouchet's Method | Qualitative | NA |
| 14. | URINE | Urobilinogen | Ehrlich - Aldehyde method | Qualitative | NA |
| 15. | URINE | Urobilinogen | Dip stick method | Qualitative | NA |
| 16. | URINE | Occult Blood or Hemoglobin | Benzidine Test | Qualitative | NA |
| 17. | URINE | Occult Blood or Hemoglobin | Dip stick method | Qualitative | NA |
| 18. | URINE | Leucocyte | Dip stick method | Negative - +++ | NA |
| 19. | URINE | Bilirubin | Dip stick method | Negative - +++ | NA |

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|---|----------------------------|--------------------------------------|------------------------------------|--|------|
| 20. | URINE | Nitrite | Dip stick method | Negative - Positive | NA |
| 21. | URINE | Microscopic examination | Microscopy | Qualitative | NA |
| 22. | URINE | Bence jones protein | Heat and coagulation method | Qualitative | NA |
| 23. | SKIN | Mantoux Test | Hyper Sensitivity test | Qualitative | NA |
| III. HAEMATOLOGY & IMMUNOHAEMATOLOGY | | | | | |
| 1. | K2 EDTA WHOLE BLOOD | Total White Blood Cell Count | Automated Cell counter | 0 – 150,000 / μ l | 5.35 |
| 2. | K2 EDTA WHOLE BLOOD | Red Blood Cell (RBC) count | Automated – Cell counter | 0– 7.0 millions / μ l | 1.79 |
| 3. | K2 EDTA WHOLE BLOOD | Differential count | Microscopy/Leishman Stain | - | NA |
| 4. | K2 EDTA WHOLE BLOOD | Peripheral smear Study | Microscopy/ Leishmann Stain | Qualitative | NA |
| 5. | CITRATED WHOLE BLOOD | Erythrocyte Sedimentation Rate (ESR) | Automated Vesmatic 20 ESR Analyzer | 0 – 140 mm | NA |
| 6. | K2 EDTA WHOLE BLOOD | Platelet Count | Automated Cell counter | 0 – 30,00,000/cmm | 8.57 |
| 7. | K2 EDTA BLOOD | Absolute Eosinophil Count | Microscopy/Neubaur chamber method | - | - |

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|-------|---------------------------------------|---|-----------------------------------|--|-----------------------------------|
| 8. | K2 EDTA WHOLE BLOOD | Reticulocyte Count | Manual / Microscopy | - | - |
| 9. | K2 EDTA WHOLE BLOOD | Red blood Cell Indices (MCV, MCH, MCHC) | Derivation | - | MCV-2.30 MCH-3.21 MCHC-3.60 |
| 10. | K2 EDTA WHOLE BLOOD | Haematocrit | Automated Cell counter | - | 3.33 |
| 11. | K2 EDTA WHOLE BLOOD | Hemoglobin | Automated Cell Counter | 0 - 30 gm/dl | 2.39 |
| 12. | K2 EDTA WHOLE BLOOD | Blood Grouping & Rh | Slide & Tube Agglutination Method | Qualitative | NA |
| 13. | CITRATED PLASMA (3.2% SODIUM CITRATE) | Partial Thromboplastin Time | Opto mechanical Method | 10-600 seconds | - |
| 14. | CITRATED PLASMA (3.2% SODIUM CITRATE) | Prothrombin Time | Opto mechanical Method | 10-600 seconds | - |
| 15. | CITRATED PLASMA (3.2% SODIUM CITRATE) | Bleeding Time | Ivy's method | Upto 6 min | - |
| 16. | PLAIN BLOOD | Clotting Time | Lee & White method | Upto 15 min | - |
| 17. | PLAIN BLOOD | Clot Retraction Time | - | - | - |

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|---|---|-------------------------|--|--|------|
| 18. | K2 EDTA WHOLE BLOOD CITRATED BLOOD (3.2% SODIUM CITRATE) | Smear for MF | Microscopy/ Manual method / Leishmann's Stain, 1% Methylene blue | Qualitative | NA |
| 19. | K2 EDTA WHOLE BLOOD | Smear for MP | Microscopy/ Manual method / Leishmann's Stain/Giemsa stain | Qualitative | NA |
| 20. | K2 EDTA WHOLE BLOOD | Sickle cells | Microscopy/ Manual method / Sodium Meta bi Sulfit | Qualitative | NA |
| IV. <u>MICROBIOLOGY & SEROLOGY</u> | | | | | |
| 1. | ANY CLINICAL SPECIMEN / TISSUE BIOPSY / BODY FLUIDS RECEIVED FOR BACTERIAL ETIOLOGY AND BACTERIAL INVESTIGATION | Gram's stain | Manual/Microscopy | Qualitative | NA |
| 2. | ANY CLINICAL SPECIMEN / TISSUE BIOPSY / BODY FLUIDS RECEIVED FOR BACTERIAL ETIOLOGY AND BACTERIAL INVESTIGATION | AFB stain | Ziehl Neelsen stain/ Manual / Microscopy | Qualitative | NA |

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|-------|---|--|--|--|------|
| 3. | ANY CLINICAL SPECIMEN / TISSUE BIOPSY / BODY FLUIDS RECEIVED FOR CHLAMYDIA TRACHOMATIS INVESTIGATION | Immunofluorescence stain Chlamydia .trachomatis | Immunofluorescence stain/ Manual/Microscopy | Qualitative | NA |
| 4. | ANY CLINICAL SPECIMEN / TISSUE BIOPSY / BODY FLUIDS RECEIVED FOR FUNGAL/ ACANTHAMOEBA ETIOLOGY AND INVESTIGATION | KOH-Calcofluor white stain | Florescence stain/ Manual/Microscopy | Qualitative | NA |
| 5. | ANY CLINICAL SPECIMEN / TISSUE BIOPSY / BODY FLUIDS RECEIVED FOR VIRAL INVESTIGATION | Immunofluorescence stain Adeno virus / HSV | Immunofluorescence stain/ Manual/Microscopy | Qualitative | NA |
| 6. | ANY CLINICAL SPECIMEN / TISSUE BIOPSY / BODY FLUIDS RECEIVED FOR ACANTHAME-OBA ETIOLOGY AND CYTOLOGICAL INVESTIGATION | Giemsa stain | Manual/Microscopy | Qualitative | NA |

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|-------|--|--|---|--|------|
| 7. | ANY CLINICAL SPECIMEN / TISSUE BIOPSY / BODY FLUIDS OTHER THAN BLOOD RECEIVED FOR BACTERIAL ETIOLOGY AND BACTERIAL INVESTIGATION | Bacterial Culture and sensitivity | Culture–Aerobic and antibiotic sensitivity testing by Disc diffusion method | Qualitative Aerobic - Semi quantitative | NA |
| 8. | ANY CLINICAL SPECIMEN / TISSUE BIOPSY / BODY FLUIDS RECEIVED FOR CHLAMYDIA TRACHOMATIS INVESTIGATION. | <i>Chlamydia trachomatis</i> isolation | Rapid shell vial Method | Qualitative | NA |
| 9. | ANY CLINICAL SPECIMEN / TISSUE BIOPSY / BODY FLUIDS RECEIVED FOR FUNGAL ETIOLOGY AND FUNGAL INVESTIGATION | Fungal Culture | Culture Aerobic | Qualitative | NA |
| 10. | ANY CLINICAL SPECIMEN / TISSUE BIOPSY / BODY FLUIDS RECEIVED FOR VIRAL ETIOLOGY AND INVESTIGATION | Viral Isolation (Adeno Virus/HSV) | Conventional tube culture method | Qualitative | NA |

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| 11. | CORNEAL SCRAPING / CORNEAL BIOPSY / CONTACT LENS SOLUTION | Acanthamoeba culture | Non-nutrient agar over laid with <i>Escherichia. coli</i> | Qualitative | NA |
| 12. | SERUM | RPR | Slide agglutination | Semi quantitative Neat- 1:32 | NA |
| 13. | SERUM | TPHA | Micro haemagglutination | Semi quantitative 1:80 - 1:1280 | NA |
| 14. | SERUM | WIDAL | Tube agglutination | Semi quantitative 1:25 – 1:400 | NA |
| 15. | SERUM | RA | Latex agglutination | Semi quantitative 10-320 IU/ml | NA |
| 16. | SERUM | Brucella agglutination | Tube agglutination | Semi quantitative 1:10 – 1:160 | NA |
| 17. | SERUM | CRP | Latex agglutination | Semi quantitative 6 - 96 mg/l | NA |
| 18. | SERUM | ASO | Latex agglutination | Semi quantitative 200-3200 IU/ml | NA |
| 19. | SERUM | Abs to HIV proteins | Western Blot | Qualitative | NA |
| 20. | SERUM | Anti HIV 1& 2 | Flow through TRI-DOT method Immunoassay | Qualitative | NA |
| 21. | SERUM | Anti-HIV 1 & 2 antibodies | Bioelisa- antibodies to HIV 1 and HIV-2 | Quantitative | 19% |

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| 22. | SERUM | Antinuclear Ab | Immuno fluorescence | Semi quantitative 1:8 – 1:16 | NA |
| 23. | SERUM | Hbs Ag | Immuno chromatography | Qualitative | NA |
| 24. | SERUM | Hbs Ag | ELISA Test | Quantitative | NA |
| 25. | SERUM | Ab to HCV | Immuno filtration | Qualitative | NA |
| 26. | SERUM | Antinuclear antibody | ELISA Test | Qualitative | NA |
| 27. | SERUM | Antinuclear antibodies against specific antigen ds DNA, Histones, ribosomal, P-proteins, nRNP / Sm, SS-A, SS-B, Scl-70 | ELISA Test | Qualitative | NA |
| 28. | SERUM | Anti HBs antibodies | ELISA Test | Quantitative | 17.4% |
| V. <u>HISTOPATHOLOGY</u> | | | | | |
| 1. | EYEBALL | HPE FNAB | Microscopy | Qualitative | NA |
| 2. | EXENTERATED SPECIMEN | HPE | Microscopy | Qualitative | NA |
| 3. | EVISERATED SPECIMEN | HPE | Microscopy | Qualitative | NA |
| 4. | CORNEAL BUTTON | HPE | Microscopy | Qualitative | NA |


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| 5. | EPIRETINAL MEMBRANE | HPE | Microscopy | Qualitative | NA |
| 6. | SUBRETINAL MEMBRANE | HPE | Microscopy | Qualitative | NA |
| 7. | BIOPSY-LID | HPE | Microscopy | Qualitative | NA |
| 8. | BIOPSY -CORNEA | HPE | Microscopy | Qualitative | NA |
| 9. | BIOPSY- ORBIT | HPE FNAC | Microscopy | Qualitative | NA |
| 10. | IRIS TISSUE | HPE | Microscopy | Qualitative | NA |
| 11. | OTHERS - OTHER TISSUES, CELL BLOCK OF FLUIDS | HPE | Microscopy | Qualitative | NA |
| 12. | FROZEN SECTION | HPE | Microscopy | Qualitative | NA |
| 13. | OCULAR TISSUES | Periodic acid Schiff stain | Microscopy | Qualitative | NA |
| 14. | PARAFFIN BLOCKS | Alcian Blue | Microscopy | Qualitative | NA |
| 15. | UNSTAINED SLIDES | Congo Red | Microscopy | Qualitative | NA |
| | | Gomoris One Step Trichrome | Microscopy | Qualitative | NA |
| | | Verhoeff's Elastic | Microscopy | Qualitative | NA |

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| | | Grams (Brown-Hopps Method) | Microscopy | Qualitative | NA |
| | | Acid Fast Bacilli | Microscopy | Qualitative | NA |
| | | Grocott's Methanamine Silver Nitrate (GMS) | Microscopy | Qualitative | NA |
| | | Giemsa | Microscopy | Qualitative | NA |
| | | Oil 'O' Red | Microscopy | Qualitative | NA |
| | | Bleaching | Microscopy | Qualitative | NA |
| | | Fontana Masson | Microscopy | Qualitative | NA |
| | | Perl's Iron | Microscopy | Qualitative | NA |
| | | Alizarin Red | Microscopy | Qualitative | NA |
| | | Toluidine Blue | Microscopy | Qualitative | NA |
| VI. | <u>CYTOPATHOLOGY</u> | | | | |
| 1. | AQUEOUS ASPIRATE | Cytology | Microscopy | Qualitative | NA |
| 2. | VITREOUS ASPIRATE | Cytology | Microscopy | Qualitative | NA |
| 3. | SUBRETINAL FLUID | Cytology | Microscopy | Qualitative | NA |

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| Last Amended on | - | | |

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|-------|--|-------------------------|-------------|--|------|
| 4. | SMEAR CYTOLOGY-LID | Impression Cytology | Microscopy | Qualitative | NA |
| 5. | SMEAR CYTOLOGY- CONJUNCTIVA | Impression Cytology | Microscopy | Qualitative | NA |
| 6. | SMEAR CYTOLOGY- CORNEA | Impression Cytology | Microscopy | Qualitative | NA |
| 7. | IOL CYTOLOGY | Cytology | Microscopy | Qualitative | NA |
| 8. | OTHER SPECIMENS – FNAC, ANY OTHER ASPIRATES AND FLUIDS | Cytology | Microscopy | Qualitative | NA |

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

Convenor