



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

**2024**

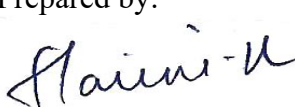
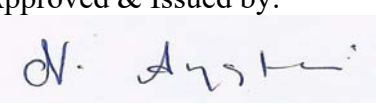
**DIRECTORY OF SERVICES**

## DEPARTMENT OF GENETICS



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|--|-------------------------|---|-------------|
| Issue No : 4   | Issue Date : 19.04.2024 | Amend No : 3  | Page 1 of 6 |
| Prepared by:<br><br>Quality Manager |                         | Approved & Issued by:<br><br>Director - Laboratory Services |             |



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| S.No | TABLE OF CONTENTS                               | Page No. |
|------|---|----------|
| 1.   | <b>General Instruction on Sample Collection</b> | 2 - 2    |
| 2.   | <b>Test Master List / Turn Around Time</b>      | 3 - 4    |
| 3.   | <b>Acceptance and Rejection Criteria</b>        | 5 - 6    |

**GENERAL INSTRUCTION ON SAMPLE COLLECTION**

**CYTOGENETICS (INSTRUCTIONS TO CHROMOSOMAL STUDY):**

1. Random blood collection is done for above mentioned test.
2. The patient should not be under any chemotherapy, immunosuppressive drugs or affected by immunosuppressive disease and septicemia, which affect mitotic index and sterility of the culture.

|  |                         |   |             |
|--|-------------------------|---|-------------|
| Issue No : 4   | Issue Date : 19.04.2024 | Amend No : 3  | Page 2 of 6 |
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**TEST MASTER LIST**

**DEPARTMENT OF GENETICS & MOLECULAR BIOLOGY (NOT UNDER NABL SCOPE)**

| S No. | Code No. | Name of the test   | Specimen required | Anticoagulant (Vacutainer tubes) | Storage / Temperature | Turn Around Time |
|-------|----------|--|-------------------|----------------------------------|-----------------------|------------------|
| 1     | 701      | Chromosomal Study (PBLC Method)  | 4ml blood         | Sodium Heparin                   | 6 days / 2-8°C        | 4-5 Weeks        |
| 2     | 712      | Genomic DNA Extraction (Mini kit)  | 4ml blood         | Sodium Heparin/ACD               | 6 days / 2-8°C        | 5 Days           |
| 3     | 713      | Genomic DNA Extraction (Maxi kit)  | 8ml blood         | ACD                              | 6 days / 2-8°C        | 5 Days           |
| 4     | 723      | Screening the three Primary mitochondrial mutations for Leber's Hereditary Optic Neuropathy (LHON) | 8ml blood         | ACD                              | 6 days / 2-8°C        | 4-6 Weeks        |
| 5     | 736      | MST (Mutation Specific Test)   | 8ml blood         | ACD                              | 6 days / 2-8°C        | 10-12 Weeks      |
| 6     | 751      | MST additional variants (without DNA) inhouse  | -                 | -                                | -                     | 10-12 Weeks      |

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|--|-------------------------|---|-------------|
| Issue No : 4   | Issue Date : 19.04.2024 | Amend No : 3  | Page 3 of 6 |
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DEPARTMENT OF GENETICS & MOLECULAR BIOLOGY (NOT UNDER NABL SCOPE)

OUTSOURCE TESTS

| S No. | Code No. | Name of the test  | Specimen required | Anticoagulant (Vacutainer tubes) | Storage / Temperature | Turn Around Time |
|-------|----------|---|-------------------|----------------------------------|-----------------------|------------------|
| 7     | 737      | MLPA (Multiplex Ligation Dependent Probe Amplification) | 8 ml blood        | ACD                              | 6 days / 2-8°C        | 10-12 Weeks      |
| 8     | 741      | Clinical Exome Sequencing by NGS                        | 8 ml blood        | ACD                              | 6 days / 2-8°C        | 10-12 Weeks      |
| 9     | 742      | NGS panel Eye Diseases                                  | 8 ml blood        | ACD                              | 6 days / 2-8°C        | 10-12 Weeks      |
| 10    | 743      | Mitochondrial Genome Screening                          | 8 ml blood        | ACD                              | 6 days / 2-8°C        | 10-12 Weeks      |
| 11    | 744      | RB1 Gene Screening                                      | 8 ml blood        | ACD                              | 6 days / 2-8°C        | 10-12 Weeks      |
| 12    | 745      | WES- Whole Exome Sequencing                             | 8 ml blood        | ACD                              | 6 days / 2-8°C        | 10-12 Weeks      |
| 13    | 746      | CES+Mito  | 8 ml blood        | ACD                              | 6 days / 2-8°C        | 10-12 Weeks      |
| 14    | 747      | WES+Mito  | 8 ml blood        | ACD                              | 6 days / 2-8°C        | 10-12 Weeks      |
| 15    | 748      | MLPA without DNA  | -                 | -                                | -                     | 10-12 Weeks      |
| 16    | 749      | Cancer Panel  | 8 ml blood        | ACD                              | 6 days / 2-8°C        | 10-12 Weeks      |
| 17    | 750      | MST additional variant (without DNA) outsource          | -                 | -                                | -                     | 10-12 Weeks      |

Blood will be collected at the main lab. Further processing, outsourcing for the relevant tests (codes 741,742,743,745,737), report generation and communication to the patients will be the responsibility of the Genetics department. .

|  |                         |   |             |
|--|-------------------------|---|-------------|
| Issue No : 4   | Issue Date : 19.04.2024 | Amend No : 3  | Page 4 of 6 |
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**SPECIMEN ACCEPTANCE & REJECTION CRITERIA FOR – CYTOGENETICS**

**ACCEPTANCE CRITERIA:**

1. It is preferable not to collect the blood sample from patient under chemotherapy, immune-suppressive drugs or affected by immune-suppressive disease and septicemia. Appreciable cytogenetic analysis could not be guaranteed during such time as these conditions lower the mitotic index and culture may get contaminated during the incubation thus hindering the results. Blood samples are accepted from such patients after discontinuation of those medications.
2. It is a random blood collection, 4 ml of blood sample to be collected in sterile sodium heparin vacutainer.
3. Blood sample should be collected without any hemolysis and clot.
4. The details on the patient's name, age, sex, diagnosis, referral doctor and date of collection should be provided along with the sample. Preferably a label that contains all these details should be stuck on the sample tube.
5. The sample should be sent immediately after the collection at room temperature along with the requisition form, also the history of the patient diagnosis should be mentioned.
6. Address to send the sample is as follows,

SN ONGC DEPARTMENT OF GENETICS & MOLECULAR BIOLOGY  
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41, College Road, Nungambakkam  
Chennai - 600006  
Ph.: 044-28271616, 28279435

7. Cost for the cytogenetic test payment can be made either by cash at the Register counter (or) by a DD addressed to Medical Research Foundation, payable at Chennai.

|  |                         |   |             |
|--|-------------------------|---|-------------|
| Issue No : 4   | Issue Date : 19.04.2024 | Amend No : 3  | Page 5 of 6 |
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8. Analysis request for specific chromosomal region, if any, should be mentioned with the request letter.
9. In case of pediatric blood sample, 0.5ml is accepted but if there is any contamination in the blood sample, culture cannot be performed and hence money would be reimbursed accordingly.

**REJECTION CRITERIA:**

**Samples are rejected if:**

1. Received with hemolysis and clot.
2. Received more than 2 days from the day of blood collection.
3. Less than 1 ml (except for pediatric blood samples).
4. Not received in room temperature.

**Note:** Blood is received from other centers if the test is requested from the customer, however, the sample should be received in proper condition as instructed.

|  |                         |   |             |
|--|-------------------------|---|-------------|
| Issue No : 4   | Issue Date : 19.04.2024 | Amend No : 3  | Page 6 of 6 |
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