



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

2023

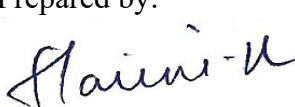
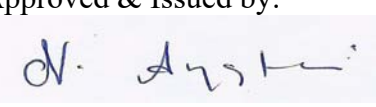
DIRECTORY OF SERVICES

DEPARTMENT OF GENETICS



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Genetics & Molecular Biology



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Prepared by:  Quality Manager	Approved & Issued by:  Director - Laboratory Services		



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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.

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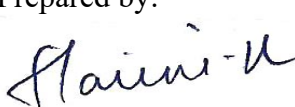
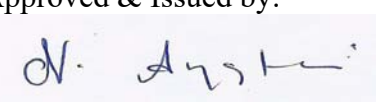
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TEST MASTER LIST

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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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. .

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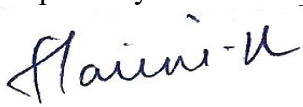

SPECIMEN ACCEPTANCE & REJECTION CRITERIA FOR – CYTOGENETICS

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.

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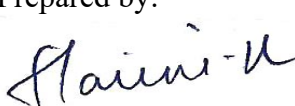
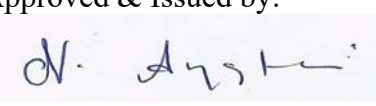
8. Analysis request for specific chromosomal region, if any, should be mentioned with the request letter.
9. In case of pediatric blood sample, 0.5ml is accepted but if there is any contamination in the blood sample, culture cannot be performed and hence money would be reimbursed accordingly.

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.

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