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Centre for Medical Diagnostic and Research  
Motilal Nehru National Institute of Technology Allahabad  
Allahabad-211004 (India)  
(An Institute of National Importance as Declared by NIT Act, GOI, 2007)

## Guidelines for Sample Submission

Following guidelines need to be followed by the users while sending/preparing sample for analysis at the centre:

1. **DNA Sequencer**: Please provide the following details along with the requisition form.

- Purified plasmid DNA or PCR product is required preferably of  $\times 96\%$  purity
- Provide details of the samples like plasmid or PCR product (bp)
- Total number of reactions
- Specific Requirements:

A. Template	B. Primer
Amount: upto 10 <u>µ</u>	Amount: 5.0 <u>µ</u>
Concentration: Plasmid (500-1000ng) PCR product (100-250ng)	Concentration: 5 pmoles/ <u>µ</u>

- A gel image of the sample with the marker is essential (1 µ) of the sample loaded on the gel). For Plasmid  $\delta$  Hind III and for PCR  $\delta$  Standard quantified marker
- Spectrophotometer/nano drop reading in ng/ µ
- Specify Size of the insert/Clone/PCR product
- Provide other details like A-T or G-C rich product or Additives if any

2. **Real Time-PCR**: Please provide the following details along with the requisition form.

- Details of sample type (DNA/cDNA)
- Details of total number of samples
- Requirement for primer (10 pmoles/ µ)
- Cycle conditions (Two Step or Three Step)
- Provide details of type of Mastermix required for experiment (With ROX or without ROX)

3. **Biolog (Microbial Identification)**: Please provide the following details along with the requisition form.

- Details of the purity of culture (Purified culture preferred)
- Details of type of microorganism (Fungi or Bacteria)
- Details of bacterial microorganism (Aerobic/anaerobic and gram positive/negative)
- Details of special requirements if any

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**4. Flow Cytometry:** Please provide the following details along with the requisition form.

- Details of Sample Type (Animal/bacterial/any other)
- Details of Dye to be used specify if required
- Procedure for the preparation of samples should be informed at the time of acquisition of samples
- Samples for acquisition should be kept in dark at 4°C.
- Provide details of any other specific requirements if any
- No consumable reagents, etc will be provided (Except sheath fluid for running)

Note - Samples will be acquired on every Tuesday and Friday per week.

**5. Cell Culture Facility:** Please provide the following details along with the requisition form.

- Name of Cell lines
- Intervention used
- Infection agent, if any
- Details of techniques required
- No consumable will be provided
- 4 vials/plates can be kept at a time
- One appointment will last only for 48 hrs

\*Note: Cell lines should be provided by the user and will strictly be maintain only for the period of experiment. Routine culturing is required otherwise the flask shall be discarded

**6. Karyotyping work station:**

- Only visualization and analysis of prepared slides/samples will be done
- Sample preparation facilities will be available shortly.

**7. Western Blot:**

- Only instrument can be used
- No consumables will be provided