

**Department of Chemistry**  
**Indian Institute of Technology (IIT) Bombay, Powai Mumbai-400076**  
**Phone: 022-25764159**

**Registration form**  
**(Matrix Assisted Laser Desorption Ionisation -Time of Flight Facility)**

Date: \_\_\_\_\_

**External Registration Number (Office use only):** \_\_\_\_\_

**Name of User:** \_\_\_\_\_

Name of Institution/Organization: \_\_\_\_\_

Name of the Dept/Div/Sec: \_\_\_\_\_

Email and Tel.No.: \_\_\_\_\_

Nature of samples involved: \_\_\_\_\_

Number of Samples to be tested: \_\_\_\_\_

Type of Analysis required: \_\_\_\_\_

Any other details to be shared: \_\_\_\_\_

\_\_\_\_\_

Kindly mention details (and bring along for discussion) from literature search performed on similar studies:

\_\_\_\_\_

\_\_\_\_\_

**Note:**

- Kindly fill separate sample submission forms for different sample type with complete information as requested in the form (pg-2).
- Also please fill the check list for the tolerance for common buffer compounds / solvents used during sample preparation / processing attached with this form (pg-3).
- SDS-PAGE image for proteins is mandatory and for other sample types mass information of any other suitable data will be accepted.
- Zip-tipping of samples is must for all peptide analysis and also for proteins wherever required (will be confirmed by the MALDI staff in charge)

**SAMPLE INFORMATION:**

**A) MOLECULAR WEIGHT DETERMINATION:**

**FOR PROTEINS/PEPTIDES / OLIGOS (DNA/ RNA) / GLYCANS / Others:**

Sr. No	Description	Remark
1	Type of Analysis (M. wt / Other objective depending on Mol. Wt)	
2	Sample Name	
3	Nature of the Sample (Known/Unknown, Single/Mixture)	
4	Conc. of protein /Oligos/Glycans in the sample (in pmoles or µg)	
5	Range of Mol. wt. of the sample protein	
6	Solvents / Buffers etc used during purification & Processing of the sample	
7	Mass obtained on SDS-PAGE (proteins)/ other suitable technique(other samples)	

**B) PROTEIN IDENTIFICATION**

**FOR PEPTIDES:**

SrNo	Description	Remark
1	PMF or MS/MS	
2	Sample Name	
3	Nature of the Sample (Known/Unknown, Single/Mixture)	
4	Conc. of sample (prior digestion)	
5	Source (Taxonomy)	
6	Sample processing method (In-gel digestion/In-solution digestion)	
7	Protease used for digestion	
8	If samples are in gel digests approximate MW and pI	
9	A brief description on the desalting methods employed	
10	Chemicals used for reduction, alkylation, if any	
11	Please specify known/possible protein modifications	
12	SDS-PAGE observation	

## INSTRUCTIONS FOR SAMPLE PREPARATION

- Experiments should be discussed with the facility in-charge before appointment.
- Purity of samples is extremely important for generating good data.
- Protein concentrations should be measured accurately before starting the experiment.
- The molecular weight (SDS IMAGE copy mandatory) as well as the pI of the proteins should be known before analysis.
- Zip-tipping of samples must for all peptide analysis and also for proteins wherever required (will be confirmed by the MALDI staff in charge).
- Appointments will be provided as per que and the user will be informed about the same.
- Kindly perform literature review on similar work and accumulate as much information as possible for good quality data.
- Any query regarding your MALDI experiment can be emailed on [rajeshg@chem.iitb.ac.in](mailto:rajeshg@chem.iitb.ac.in)

Whenever the prepared samples are used in the publications appropriate acknowledgement of usage of Chemistry, IIT Bombay MALDI facility must be mentioned. The details should be forwarded to [rajeshg@chem.iitb.ac.in](mailto:rajeshg@chem.iitb.ac.in)

GIVEN MATERIAL IS NOT POISONOUS OR TOXIC IN ANY WAY: \_\_\_\_\_

We agree to acknowledge the Matrix Assisted Laser Desorption Ionisation (MALDI) Central Facility of Chemistry, IIT BOMBAY in our Publications/Reports/Thesis in which the data is used with due feedback through email.

Name & Signature of User: \_\_\_\_\_

Sample received date): \_\_\_\_\_

Sample analysis completion (date): \_\_\_\_\_

Name & Signature of concerned Staff-in-charge: \_\_\_\_\_

Remarks if any: \_\_\_\_\_