

**Department of Botanical and Environmental Sciences
GNDU, Amritsar.**

**(SHIMADZU ATR-FTIR/ IR-MICROSCOPE)
Request form for ATR-FTIR/ IR-MICROSCOPE SPECTRAL DATA**

Date:

Name of user:

Designation:

Name of the Department:

Name of the Supervisor:

Spectral recording options: ATR/KBr disc/Microscope

Sample Codes	Solubility	Expected functional Gps	Spectral Range
1)	1.....	1.....	1.....
2)	2.....	2.....	2.....
3)	3.....	3.....	3.....
4)	4.....	4.....	4.....
5)	5.....	5.....	5.....

Signature of the user

Signature of Supervisor

Signature of the In-charge FTIR facility

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India

Sample submission form for Nuclear Magnetic Resonance (NMR)

1. Sample Code: _____
2. Name of the Institution/University/College/ Industry: _____
3. Spectrophotometer frequency (400 or 500 MHz): _____
4. NMR Experiment (^1H , ^{13}C , DEPT, COSY, etc): _____
5. Preferred date and Timing: _____
6. Solvent: _____
7. Concentrations (mg/ml): _____
8. Temperature: _____

Mode of Payment

(i) For samples outside the GNDU campus: Payment can be made in the form of DD drawn in favour of Registrar, Guru Nanak Dev University, payable at Amritsar. (ii) For in-campus samples; Payment will be received in cash in the office of Emerging Life Sciences and a receipt will be given. (iii) GST = 18% extra for outside samples.

For the NMR users under category (ii): time slot will be allotted every week and the machine will be operated by the group member/s who are trained for operating NMR spectrometer.

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Real Time-PCR

Date.....

Concerned Department:

Concerned Supervisor:

Signature of the Supervisor:

Name of the Student:

Signature of the Student

Date of Experiment:

Time of Experiment:

Detection Method: SYBR Green () TaqMan ()

Number of Samples:

RT-PCR Teacher Incharge

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Sample Submission Form for BET Analysis

Date:

S. No.	Sample	Submitted	Signature of Supervisor	Remarks

1. Degassing temperature:
2. Type of Analysis: Physisorption/Chemisorption
3. Analysis Required: (please tick the appropriate one from the following)

Isotherm	BET Surface Area	Langmuir Surface Area	Freundlich surface Area
t-plot	Tamkin Surface Area	BJH Adsorption	BJH Desorption
Harvath-Kawazae Ananlysis	DFT Pore Size		

4. Use of Filler rod in Sample tube: Yes/No
5. Seal Frit Required: Yes/No
6. Gas to be used for study: At present, we are using N₂ for adsorption and desorption

Note:

- a. Only one sample can be submitted at one time. After the analysis of first sample, next sample can be submitted.
- b. Chemisorption facility is available but yet to be installed.
- c. Before submitting the sample evacuate your sample at 80-90 °C for about 10 hours or at ambient temperature for 24 hours if sample is not stable at higher temperatures.
- d. Sample must be stable at degassing temperature.

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Requisition form for particle Size and Zeta potential

Date.....

Name of student

Name of supervisor

Name of samples

Sample state

Amount of sample

Solvent used

Sample
Code

Signature of supervisor

Signature of student

(For office use only)

Sample received on.....

Sample analyzed on.....

Reference No.....

Signature of office in charge

Signature of instrument in charge

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Requisition form for Spray drying

Date.....

Name of student
Name of supervisor
Name of samples
Sample code
Sample state
Amount of sample
Solvent used
% Solid content
Spray drying parameters

Signature of supervisor

Signature of student

For office use only

Sample received on.....
Sample analyzed on.....
Reference No.....

Signature of office in charge

Signature of instrument in charge

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Requisition form for Rheometer

Date.....

Name of student

Name of supervisor

Name of samples

Sample state

Amount of sample

Solvent used

Parameters to perform

Sample

Code

Signature of supervisor

Signature of student

For office use only

Sample received on.....

Sample analyzed on.....

Reference No.....

Signature of office in charge

Signature of instrument in charge

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Requisition form for HPLC

Date.....

Name of student

Name of supervisor

Name of samples

Sample state

Amount of sample

Solvent for sample preparation.....

HPLC Parameters

a) Flow rate

b) Wavelength

c) Column

d) Mobile phase

Sample Code

Signature of supervisor

Signature of student

For office use only

Sample received on.....

Sample analyzed on.....

Reference No.....

Signature of office in charge

Signature of instrument in charge

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Requisition form for Metal/Heavy metal analysis for Internal Users of GNDU
Atomic Absorption Spectrophotometer

Date.....

Name _____

GNDU Regd. No. _____

Department _____

Contact No. (O) _____ **Mobile No.** _____

Email _____

Nature of sample

Number of samples

pH range of samples

Name of element to be analysed

AAS only		AAS with graphite furnace		AAS with hydride Vapour generation	
Type of Fuel gases required					
Acetylene + Air		Acetylene + Nitrous oxide		Argon + Acetylene/Nitrous oxide	

Name of Supervisor

(Signature of Requisitioner)

(Signature of Supervisor)

(Signature of Head of Department)

Date of submission of requisition form

Tentative date for analysis of samples

Note:

- The samples should be properly filtered at least using *Whatman* filter paper No. 1.
- The pH of the samples should not be less than 5.
- The samples having concentration more than 5ppm will require dilution.
- Please bring Fresh CD only for collection of results. Used CD or Pen drives will not be accepted.
- List of elements include Ag, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Zn.
- Only one element for 25 samples will be analyzed per requisition form.
- Separate requisition form should be filled after every 25 samples.

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Requisition Form for use of Confocal Facility

Date.....

Name:.....

Designation:.....

Address:.....

.....

Tel/Mobile no:.....Email:.....
User Category: GNDU Other Govt. Industry/Private

Distance from the center of the cluster (arcseconds)

Table 1. Summary of the main parameters of the three models.

Nature of service required

1. Sample imaging
2. FRAP
3. Live Cell Imaging
4. FRET

Undertaking

I/we undertake to abide by the safety and sample preparation guidelines and precautions during testing of my samples. I/we shall not claim for any damage/harm to my samples submitted for the analysis by GNDU equipments.

Requisition made By:

Recommended By
(Head/Principal Investigator)

Permitted for Use:

(Professor In-charge)

(Dean Faculty of Life Sciences)

Date of submission of requisition

For Office Use Only:

S. No. _____

Date:

Signature of Instrument Operator

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Requisition Form for use of Scanning Electron Microscope Facility

Date.....

Name:.....

Designation:.....

Address:.....

.....
Tel/Mobile no:.....

Email:.....

Number of Samples:.....

Type of Sample:.....

Nature of service required:.....

Undertaking

I/we undertake to abide by the safety and sample preparation guidelines and precautions during imaging of my samples. I/we shall not claim for any damage/harm to my/our samples submitted for the analysis.

Requisition made By:

Recommended By
(Head/Principal Investigator)

Permitted for Use:

(Professor In-charge)
Scanning Electron Microscope for Life Sciences

(Dean Faculty of Life Sciences)

Date of submission of requisition:
Date/Time of Usage

For Office Use Only:

S. No._____
Date:_____

Signature of Operator Incharge

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Requisition form for Semi Prep HPLC

Date.....

Name _____

Department _____

Contact No. (O) _____ **Mobile No.** _____

Email _____

Sample Name/ID/Code _____

Nature of Compound _____

- **If solid, quantity and recommend solvent** _____
- **If liquid, Concentration and solvent (incl. Buffer, salt etc.)** _____
- _____
- **Storage conditions** _____
- **Safety remarks:** **Toxic** **Non Toxic** **Biological Hazardous**
- **Mention compatible chromatographic conditions for UPLC analysis:** _____

Aim of analysis: _____

(Signature of Requisitioner)

(Signature of Supervisor)

**(Signature of Head of
Department)**

Note:

- The samples should be properly filtered at least using 0.2 μ filters.
- Please bring Fresh CD only for collection of results. Used CD or Pen drives will not be accepted.

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Requisition form for Renishaw micro-Raman Spectrometer

Date.....

1. Name of User
i. Phone:.....
ii. E-mail:.....

2. Research Supervisor :.....

3. Category :Ph.D/ M.Phil/M.Sc./Post Doc. Research

4. Department :.....

5. University/Institution :.....

6. Wavelength used :.....

7. Wavenumber Range :.....

8. Type of Samples : Powder/Liquid/Film on substrate/Polymer/Gel

9. Nature of Sample : Explosive/Toxic/Light-Heat-Air Sensitive

10. Sample Description :.....

11. No. of Samples :.....(Maximum no. of Samples is 6)

12. Sample codes

Signature of Research Supervisor

Signature of Student

Signature of Instrument In-charge

For Office Use Only

Sample Received

Sample Analyzed on.....

Reference No.....

Signature Lab In-charge

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Requisition form for XRD Facility

Date.....

1. Name of User :
i. Phone:
ii. E-mail:

2. Research Supervisor :

3. Category : Ph.D/ M.Phil/M.Sc./Post Doc. Research

4. Department :

5. University/Institution :

6. Angle Range :

7. Type of Samples : Powder/Liquid/Film on substrate/Polymer/Gel

8. Nature of Sample : Explosive/Toxic/Light-Heat-Air Sensitive

9. Sample Description :

10. No. of Samples :

11. Sample codes

Signature of Research Supervisor

Signature of Student

The Above Samples may be accepted on behalf of our Department/Institution

Head of the Department

For Office Use Only

Sample Received

Sample Analyzed on.....

Reference No.....

Signature Lab In-charge

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Transmission Electron Microscope (TEM)

Date.....

User Name/Contact/e-mail :

Research Supervisor :

University/Institute/Dept. :

Sample Details : (Please tick whichever is applicable)

No. of Samples (Max. 2)	:		
Morphology & size expected	:		
Sample is	: Magnetic	Nonmagnetic	Biological
Sample is	: Hazardous	Non-Hazardous	
Sample is	: Conducting Non-Conducting		
Nature of Sample	: Powder	Dispersion	Film
Medium for dispersion	: Ethanol	Methanol	Water
	Acetone	Toluene	other (mention) _____
Signature of Research Supervisor Personal Appointment (You would like to attend)	: Yes		_____
	No		Signature of Student

Signature of Research Supervisor

Signature of Student

For Office Use Only

Signature of Instrument Incharge

Sample Received on.....

Sample Analyzed on.....

Reference No. Signature Lab in-charge

NOTE:

Please bring your own CD for taking the data
 Samples must be mounted on a grid

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Requisition form for Isothermal Titration Calorimetry

Date.....

Name:

Department:

Contact No:

Email:

Sample name/ID/Code:

i)

ii)

Aim of analysis:

.....

.....

(Signature of supervisor)

(Signature of Requisitioner)

.....

(Signature of Head of Department)

Notes:

- i) Syringe concentration should be less than 500mM.
- ii) Samples should not precipitate during titration.
- iii) Do not use organic solvents.
- iv) Concentrations of protein solutions should be less than 150 μ M.

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Requisition form for Amino Acid Analyzer

Date.....

Name_____

Department_____

Contact No. (O)_____ **Mobile No.**_____

Email_____

Sample Name/ID/Code_____

Nature of Compound_____

- If solid, quantity and recommend solvent_____
- If liquid, Concentration and solvent (incl. Buffer, salt etc.,)_____

- Storage conditions_____
- Safety remarks: Toxic Non Toxic Biological Hazardous
- Mention compatible chromatographic conditions for UPLC analysis:_____

Aim of analysis:_____

(Signature of Supervisor)

(Signature of Requisitioner)

(Signature of Head of Department)

Note:

- The samples should be properly filtered at least using 0.2μ filters.
- Please bring Fresh CD only for collection of results. Used CD or Pen drives will not be accepted.

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Requisition form for Microsense-VSM Facility

Date.....

Name of Student : _____

Sample Code : _____

Physical state of samples : _____

Magnetic field range : _____

No. of samples : _____

Signature of Supervisor

Signature of Incharge of VSM

Note: Please submit only two samples with each request form

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Requisition form for DLS Analysis

Date.....

S. No.	Sample Code	Submitted By	Supervisor	Email ID
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1. Temperature of Measurement:
2. Type of the Sample:
3. Solvent Used:
4. Viscosity and refractive index of the sample:
5. Analysis Required: Size/ Molecular weight/ Zeta potential
6. Scattering angle: 13° forward scattering/ 173° back scattering

Signature of Supervisor

Signature of Instrument Incharge

Note:

- a. Before submitting the sample, depending on your expectations of result, please filter the sample solutions either with 0.2 micron or 0.45 micron membrane filter if necessary.

Emerging Life Sciences
Guru Nanak Dev University, Amritsar-143005, India
Requisition form for centre for Genetic disorders

The Cashier
Guru Nanak Dev University
Amritsar

A/c No. 4180 B

Case No. _____

Date: _____

Name: _____

Fee for Chromosomal analysis

Rs.1500/-

- ◆ Fee for Genetic Counselling Rs. 500/-
- ◆ Others (specify)

Amount due: _____

Co-ordinator
Centre for Genetic Disorders

Telephone: 258802-09, Ext.3277

Sample Submission