

INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY

Sophisticated Analytical Instrument Facility (SAIF)

ANALYSIS REQUEST FORM AND SAFETY DATA SHEET -LCMS/QTOF/Orbitrap

User Type: IITB/ External (University/National Lab/R & D/Industry)

Name of the user: SMITA KHARE

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Contact No: 7987859663

Name of the Institute/Organization: Ravishankar College of
Pharmacy

Address of Institute / Organization:

Ravishankar College of Pharmacy, Bypass Road,
Bhanpur Square, Bhopal (M.P.) 462037

Name of Guide/PI: Dr Kapil Khatri

Email kapil.12@gmail.com

Contact No 7772099805

1. **Sample Code/Name:** SK01, SK02, SK03, SK04

2. **Number of Samples:** 04

Kindly Tick whichever is applicable for the following:

3. **Analysis required-** Qualitative/Quantitative/both ✓

4. **Details of Analysis required:** High Resolution LCMS (Full detail) including identification of compounds Molecular Formula & structure, molecular weight and quantity in a particular extract. Also separation by LC.

5. **Expected compounds with empirical formula:** Unknown Multiple Compounds mainly Flavanoids, Sterols, Alkaloids, Phenolic compounds, etc

6. **Sample Type:** Solid (Powder, Pellet, Bulk)/Liquid/ Dispersion/Emulsion/Colloidal/Gel/ /Others
(Specify): All 04 samples are in Semisolid form

7. **Sample Category:** Biological (Microorganisms/ Fungal/Bacterial/ Protein/ blood/ Plasma/ Serum/ Organs/ urine/Stool/ Cancerous Cells/Non Cancerous Cells/Plant ✓Extracts/ Marine extracts)/ Polymer/ Environmental/ Others (Specify): Plant Extract

8. **Sample volume/concentration/weight/specify concentration:** 4mg to 5mg (SK01,SK02, SK03, SK04)

9. **#Sample Preparation:** Required(specify)/Not required: Required for 04 samples (have to be dissolved in suitable solvent)

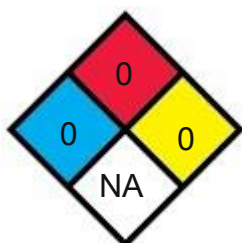
10. **Solvents required-** Acetone/ ACN/ Methanol ✓/ 2-Propanol/ Chloroform/ DCM/ Ethylacetate/ buffer/water others(specify) SK01-Petroleum ether extract, SK02-Ethylacetate extract, SK03-Ethanol extract, SK04-Water extract. (Solvent to be used accordingly)

11. **Sample nature:** Organic ✓/ Inorganic/ Any other characteristic nature (Specify)

12. **Moisture:** Present/Absent/NA: Present in SK03 & SK04; Absent in SK01 & SK02

13. **Volatile organic compound:** Present/ Absent ✓/NA

14. **Stability of sample:** Stable under RTP, hygroscopic, sublimes, Reactive in air/moisture/ light/heat
15. **Specify the Storage and handling conditions** (Room temp/ Refrigeration)
16. **Sample Properties:** Carcinogenic(carcinogenicity level-----) /Non Carcinogenic Radioactive/ Explosive/ Toxic/ Corrosive/ Flammable/ Non flammable/ Other(specify): Non carcinogenic, non toxic
17. **Whether incompatible with any material-** Yes/No (Specify the materials): Not incompatible
18. **Toxicity:** Hazardous/ Non Hazardous
19. **Health hazards:** Yes/No(irritant to skin/irritant to eyes/harmful to skin/ toxic if inhaled/toxic if ingested)
20. **First aid measures:** Eye/Skin/Inhalation/ Ingestion/Others(specify): NA
21. **Disposal Method of sample :** Easily Soil Disposable
22. **Additional information if any:** NA
23. **Label the sample(s)/ sample container(s) with hazard category :** NA
24. **All Samples will be discarded within 7 days of analysis. If you wish to collect the samples then you are required to make arrangement for the same. SAIF office will not dispatch the same to users under any circumstances.**
25. **MSDS (should be uploaded/ attached if available):** Yes
26. **Please fill in appropriate numbers in the NFPA diamond: (*Kindly refer the image at the end of the file for reference):**



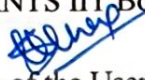
Declaration

I confirm that the samples submitted for analysis are for research purpose only and the above furnished details are correct and true to the best of my knowledge. I understand that I will be held responsible for any damages arising from incorrect information provided by me against points 16-19.

I agree to acknowledge DST and SAIF/CRNTS, IIT Bombay for providing (Instrument name) analytical facility for my research work, in my publications. I also agree to send the publication reference (Journal name/volume number/names of the authors/date of issue of the publication etc) to office.saif@iitb.ac.in

I declare that the "Content of this report is meant for our information only and we will not use the content of this report for advertisement, evidence, litigation or quote as certificate to third party"

I accept that all the issued reports/results (Soft/hard) will not carry any Signature or Seal and Stamp of SAIF/CRNTS IIT Bombay.


Signature of the User


Signature of the In Charge/HOD/PI with College / P.I. / Guide seal / stamp

Date: 22 Nov. 2025

Place: Bhopal

PRINCIPAL
Ravishankar College of Pharmacy
Bhopal

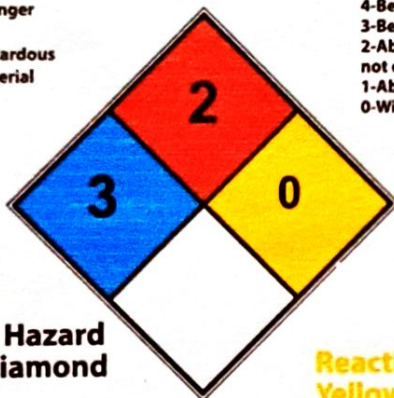
* refer the image below for reference for filling up Point 26:

**Health Hazard
Blue Diamond**

4-Deadly
3-Extreme Danger
2-Hazardous
1-Slightly Hazardous
0-Normal Material

**Fire Hazard
Red Diamond**

Flash Points
4-Below 73°F
3-Below 100°F
2-Above 100°F
not exceeding 200°F
1-Above 200°F
0-Will not burn



**Specific Hazard
White Diamond**

ACID - Acid
ALK - Alkali
COR - Corrosive
OXY - Oxidizer
☢ - Radioactive
☒ - Use No Water

**Reactivity
Yellow Diamond**

4-May Detonate
3-Shock & Heat
may detonate
2-Violent Chemical
change
1-Unstable if heated
0-Stable