

INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY
 Centre for Sophisticated Instrument & Facilities (CSIF)

IITB ANALYSIS REQUEST FORM AND SAFETY DATA SHEET – Simultaneous TGA DTA

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| Name of the User: Email: Contact No: Department: | Name of Guide/ PI: Email: Contact No.: |
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1. Number of Samples:

2. Heating Program: (Add more rows if required OR attach a separate sheet)

| S. No. | Sample Name | Temp. range (RT to°C) | Heating rate (Ramp) °C/min | Atmosphere (N ₂ , Ar, Air, O ₂) | Analysis reqd. TGA/ DTA/ Both |
|--------|-------------|--------------------------------|-------------------------------|---|----------------------------------|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |

Samples containing alkali metal oxides, hydroxides, heavy metals, alkali metal halides, nitrates or large amounts of sulphur when heated in platinum crucible can erode the crucible.

3. Does the sample contain any Halogens/ Corrosive substance/Cellulose? YES / NO

4. Hygroscopic or non-hygroscopic:

5. Explosive or non-explosive at higher temp:

6. Does your sample contain any heavy metals like lead, bismuth, tin, arsenic, silver, mercury, copper, Selenium, tellurium, etc.? If yes, specify.

Notes:

- At least 30-40 mg of sample should be submitted.
- Sample size should be < 5mm in diameter and <2.5 mm in thickness.
- Samples with corrosive substance that will react with Aluminium/Platinum/Ceramic pans at the should not be sent for analysis by TGDTA or DSC.
- Samples should not be toxic or hazardous. Any functional groups that may explode or foam are strictly not allowed
- Radio-active material, unstable and explosive compounds are not accepted for analysis.
- Interpretation of spectra is NOT undertaken.