

ANALYTICAL SERVICES

| Sr. No. | Analytical technique | Quantity of Sample | Tentative Duration required (in Working Days) |
|---------|--|--------------------|---|
| 1. | FTIR (Fourier Transform InfraRed Spectroscopy) | 100 mg or 0.5 ml | 8 |
| 2. | NMR (Nuclear Magnetic Resonance) (Solvent: Methanol, CDCl ₃ , DMSO, D ₂ O) | 20 mg | 8 |
| 3. | MS (Mass Spectrometry) | 15 mg | 8 |
| 4. | XRD (X Ray Diffraction) - Powder | 0.5 g | 15 |
| 5. | DSC (Differential Scanning Calorimetry) | 20 mg or 0.5 ml | 15 |
| 6. | TGA (Thermo Gravimetric Analysis) | 20 mg | 15 |
| 7. | SEM (For Micron Size) | 30 mg / 0.5 ml | 15 |
| 8. | FE SEM (For Nano Size) | 30 mg / 0.5 ml | 15 |
| 9. | SEM EDX / FE SEM EDX (Elemental Analysis) | 30 mg / 0.5 ml | 15 |
| 10. | TEM (Transmission Electron Microscopy) | 30 mg / 0.5 ml | 20 |
| 11. | AFM (Atomic Force Microscopy) | Thin film 1x1 cm | 15 |
| 12. | Zeta Potential | 2 ml | 10 |
| 13. | Particle Size (Nano size) | 100 mg or 2 ml | 10 |
| 14. | Particle Size (Micron size) | 100 mg or 2 ml | 10 |
| 15. | XRF (X-ray fluorescence Spectrometry) | 1 g | 10 |
| 16. | XPS (X-ray photoelectron Spectroscopy) | 20 mg | 20 |
| 17. | GCMS (Gas chromatography–mass spectrometry) | 50 mg | 10 |
| 18. | LCMS (Liquid chromatography–mass spectrometry) | 50 mg | 10 |
| 19. | CHNS (Elemental Analysis) | 5 g or 5 ml | 10 |
| 20. | ICP OES (Elemental Analysis – Heavy Metals) | 1 g or 2 ml | 10 |
| 21. | BET Surface Area | 0.5 g | 15 |
| 22. | GPC (Gel Permeation Chromatography) | 1 g | 10 |
| 23. | UV-Vis Spectroscopy | 20 mg | 10 |
| 24. | AAS (Atomic Absorption Spectroscopy) | 1 g | 10 |
| 25. | GC (Purity by general method) (Purity with standard) (Head Space – Solvent) | 50 mg or 1 ml | 15 |
| 26. | HPLC <ul style="list-style-type: none"> • Purity by General method • Purity by API method (Blank + Sample) • Purity with standard • Assay with RSD for five injections of std and sample duplicate (for APIs) • Related substances for APIs | Variable | 15 |
| 27. | Loss on Drying or Water content | 2 g | 10 |
| 28. | Specific Optical Rotation | - | 10 |
| 29. | Dissolution study | Depending on study | |
| 30. | Validation (Assay, Related sub, Method) | | |
| 31. | Chemical Testing (pH, Loss on Ignition, Sulphated Ash, Acid value, Titration, Potentiometry, Wet study etc.) | | |
| 32. | Micro testing, Water Study (COD/BOD) | | |

Instructions to be followed before sending samples:-

1. Kindly send samples with clear labeling & packing. Separate samples should be sent for different analysis. e.g. If sample 'X' is to be analyzed for DSC & XRD then it should be packed separately with clearly mentioned on label. Quantity mentioned as per above table.
2. Samples to be sent by courier/post only, kindly do not come in person to submit the sample.
3. Preferably, packing to be avoided in glass container to overcome transport breakages. Use suitable small plastic bottle or polybag or Eppendorf tubes.
4. Service charges are payable in advance in DIYA LABS or DIYA ANALYTICALS Account in Vashi, Navi Mumbai Branch and sent email mentioning details of Transaction. Account details will be provided on mail on request. Samples will be analyzed only after receipt of payment.
5. Before & after sending samples please email us and if required do telephonic communication.
6. Industry: - Samples to be send along on Company Letterhead mentioning sample name and other details.
7. Student: - Samples to be send along with University/Institution/College authorization letter mentioning sample name and other details.
8. The analytical data/spectra are provided only for research/development purposes. These cannot be used as certificates in legal disputes.
9. Interpretation of spectra is not undertaken normally.
10. Cancellation: Cancellation of sample analysis is not allowed. Samples are not returnable.
11. Provided tentative timeline for analysis is based working condition of equipment and sample load of equipment.
12. It is also desirable that analysis work done using DIYA LABS facilities should be acknowledged in the publications/theses.

FOR CHARGES ENQUIRY E-mail us at diyalabs@gmail.com

All the communication should be addressed to:

DIYA LAB

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