

Single crystal X-ray diffraction for Macro Molecules

It facilitates to determine accurately the spatial arrangement of the atoms in a molecule in three dimensional spaces. This helps in determination of structures of biological macromolecules (such as proteins and enzymes etc.) to understand the interactions and functions at the molecular levels.



Make and Model:

Rigaku Micro Max – 007HF High Intensity Microfocus Rotating Anode X – ray Generator.

Specification/ Features:

Diffractometer:

- Target : Cu
- Scanning mode : 0 - 180° ω scan: 0 - 180° θ scan
- Detector : Rigaku R Axis IV ++
- Beam size at the sample : 100 μm
- Data can be collected at low temperature (100 K)

Available mode of use:

- Solid (crystals, fibres, small molecules)

Whether the facility is open to external users: Yes

Location: Room No. 103, Ground floor

Department: Sophisticated Analytical Instrument Facility (S.A.I.F), IITB

Contact details: 022-25767165

Convenor / Incharge Name: Prof. Ruchi Anand (ruchi@chem.iitb.ac.in)