



KIIT-TBI Analytical Testing Facility (ATF)

A one-stop solution to all your
analytical research, development
& testing requirements.

Functional Areas

Biotechnology
Drug Discovery
Food & Agri

Biopharmaceuticals
Chemical
Mines & Minerals

Healthcare
Polymer & Material
Water & Environment

Supported by BIRAC-DBT, MoFPI and Startup Odisha

Promoting Deep Science Innovations

KIIT-TBI has high-end lab facilities as its disposal to assist startups, innovators, students and researchers translate their innovations into market-ready products.



High-end instruments



Highly skilled professionals



Reliable



Affordable rates

Technology Capabilities

Spectrometry

- GC-MS/MS
- LC-MS/MS
- FTIR
- MP-AES
- Ultraviolet-visible (UV/Vis) spectroscopy
- DLS
- CD spectrophotometer
- ICP-OES
- HPLC

Cell Culture

- BSL2 Cell Culture facility
- CO2 Incubators
- ELISA plate readers
- Flow cytometry
- Fluorescence microscopy
- Confocal microscope
- Animal house

Molecular Biology

- Biosafety cabinets
- SEM
- PCR Thermocycler
- Qubit 4 Fluorometer
- Gel documentation system
- Incubator shaker
- Centrifuges

Recombinant Protein Production

- Biosafety cabinets
- Shake flask incubators
- Fermenter/bioreactor- 7.5 L and 14.0 L capacity
- Bench-top Centrifuge- 3L and 1.5L capacity
- Ultrasonicator
- AKTA Pure Systems

Services



Healthcare

- Metabolite profiling
- Heavy metal detection by MP-AES and ICP-OES
- Clinical proteomics
- Gene expression analysis by RT-PCR
- Clinical metabolomics



Biopharmaceutical

- Molecular cloning
- Recombinant protein expression optimization
- High yield bioactive recombinant protein production
- Cell bank preparation
- AKTA assisted protein purification
- Protein biophysical characterization
- Physico-chemical characterization of biosimilars



Chemical analysis

- Purification by HPLC
- Identification by FTIR, GCMS and LCMS
- Metal analysis by MP-AES and ICP-OES
- Size analysis by DLS



Drug Discovery

- Preparation of drug target proteins
- AI enabled in silico screening
- LCMS assisted High throughput screening (HTS)
- Fluorescent Thermal Shift Assays for HTS
- Lead optimization

Lab Facilities

Bioanalytical Lab



Bioprocess Lab



Cell Culture Lab



Testing Labs



Central Instrumentation Lab





Food analysis

- Pesticides detection by GC-MS, LCMS
- Heavy metal detection by MP-AES and ICP-OES



Polymer and material analysis

- Molecular analysis by UV-Vis, FTIR, MS
- Size and morphology analysis by DLS



Water & Environment

- pH, Conductivity, TDS, Color, Nitrate, Fluoride, Sulphate, Heavy metals, Pesticides in Water & Waste Water.
- Sampling of Ambient Air & Stacks samples by using instruments like RDS, PM 2.5 sampler, Stack sampler, Flue gas analyser etc.



Mines & Minerals

Analysis for Coal & Coke, Ores & Minerals by using Bomb Colorimeter, Potentiometer, Flame photometer etc.

Specialized Services

- Shelf life
- EIA (Environment Impact Assessment)
- Environment management plan
- Feasibility report preparation
 - Common effluent
 - Treatment plant (CETP's)
 - Conservation and rejuvenation of lakes and rivers
 - Municipal hazardous and biomedical waste
- Hands on instrumentation Training and workshops
- Inspection services
- R&D projects

For Hands-on Training & Internship

Write to us at biotbi@kiitincubator.in

Contact Us

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