

Details of Equipment

Name: Isothermal Titration Calorimeter (Microcalorimeter)

Model: PEAQ-ITC

Company: Malvern, UK.

Serial Number: MAL1177557

Instrumentation:

MicroCal PEAQ-iTC consisting of:

- PEAQ-iTC Cell
- PEAQ-iTC Controller
- PEAQ-ITC Washing Module with detergent capability for cleaning cell and titration syringe.
- PEAQ-iTC Kit
- PC

Software pack includes: PEAQ-ITC data analysis software and Microsoft Windows 7.

Accessory kit contains:

User manuals, additional syringe, O-rings, temperature standards, fuses, plunger tips, tools, etc.

Back up: 3KVA UPS dedicated for the instrument.

Amount of sample required: 200-300 μ L.

Kind of experiments can be performed: Biomolecular interaction, protein-ligand binding, calculation of thermodynamic parameters, stoichiometry, enzyme kinetics, etc. (Label-free analysis)

Type of sample can be process: Protein, substrates/ligands/biomolecules (respective buffer or solvent should also be supplied for the binding analysis)

- All samples (protein or ligand or substrates, etc) must be filtered through 0.22 μ m filter before analysis)
- Pure proteins needed
- read the instructions and details on

Sample throughput: Up to 4 - 5 per 8h day (will vary if further optimisation is needed)

Charges for ITC:

User	Amount (INR)
for SPPU (Rs)	2000/- per run
Rates for other Universities, Govt. Institutes and R& D labs	run 2500/- per run
Rates for Industry (Rs)	3000/- per run