

Eco-ATR



ATR is an easy to use FTIR sampling method that is ideal for both solids and liquids and does not require any sample preparation. The Eco ATR is a single reflection ATR sampling module with a very attractive cost/performance ratio. It is equipped with a versatile high throughput ZnSe ATR crystal for the analysis of powders, solids, pastes and liquids.

Instrumentation Details

Make : Bruker, Germany

Model : Bruker alpha Eco-ATRIR with ZnSe crystal

Crystal : ZnSe

Operating pH for liquids: 4-8 pH

Focal plane array: 6000-600cm⁻¹

Single point detector: range: 7500-600 cm⁻¹

Analysis area: 128x128 in 2D format on the sample plane 300x300 μm.

20 x objective (ATR): 0.5 μm.

Spectral resolution of FTIR 0.2 cm⁻¹

Rapid scan & Rapid scan 65 spectra/sec at 16cm⁻¹

Library search for organic compounds &

User Instructions

1. Provide solid samples in powder form. Minimum amount required 1-2 mg.
2. Samples may be in liquid form. Minimum amount required 0.1 ml.
3. Samples can be submitted as thin films.

Contact Us

Faculty in charge: Dr. Mahesh Padaki

E-mail: m.padaki@jainuniversity.ac.in

Contact number: +91 9538414994