

Fourier Transform Infrared Spectroscopy(FTIR)

QATR-S SINGLE REFLECTION ATR

* Required

1. Email *

FT-IR Specifications



Description: ATR-IR (Attenuated Total Internal Reflectance) module is a single Reflection module which allows the direct measurement of samples for FTIR. The method involves pressing the sample against a high refractive-index prism and measuring the infrared spectrum using infrared light that is totally internally reflected in the prism. The QATR-S is a single-reflection ATR measurement attachment. The prism is made of diamond, so the measurement wavenumber range is up to 400 cm^{-1} (wide-band). With a liquid sample, simply place a drop on the prism to measure spectra. For other samples, clamp the sample closely against the prism surface before measurement on the sample surface

Major Specifications:

Spectral Range: $400\text{-}4700\text{ Cm}^{-1}$

Resolution: 2 Cm^{-1}

Sample Required: 10-50 mg (Solid), 1-3ml (Liquid)

Light Source: High-energy ceramic

Detector: IRSpirit-L model: LiTaO_3 detector

2. Name of the Student/User *

3. Department *

4. College/University/Institution *

5. Billing address *

6. Number of Test Samples *

Mark only one oval.

1

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15

7. Number of Standard Samples *

Mark only one oval.

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8. Name and Address of the Guide *

Declaration Form

Download the Declaration form and upload the filled document authenticated by Guide with seal.

9. Declaration of User authenticated by Guide *

**DECLARATION FORM****Submission of sample for Analysis**

User Name	Dr./Mr./Mrs./Ms	
Contact Number & Email ID		
Date of Submission	Date: Month/Year	
Name of Guide	Dr./Mr./Mrs./Ms	
Designation	UG/PG/Research Scholar	
Nature of Sample	Solid/Liquid/Powder	
Mode of Analysis	Transmittance/Absorbance	
<p>Certified that the sample submitted belongs to the user mentioned above and we agree to acknowledge the usage of the facility in publications and details of the same will be intimated.</p>		
Signature of the User with Date		
Signature of the Guide with Date and seal		

Files submitted:

Kindly find the Charge list for the Sample Analysis by ATR



CHARGE LIST -SUBMISSION OF SAMPLES AND MODE OF PAYMENT

The samples can be submitted with detailed information and stating the requirements. If you are sending by mail, kindly enclose the payment receipt along with the sample and address the same to

**Dr.N. HARIKRISHNAN
PRINCIPAL AND PROFESSOR
FACULTY OF PHARMACY
Dr.M.G.R. R EDUCATIONAL AND RESEARCH INSTITUTE
VELAPPANCHAVADI, CHENNAI- 600 077**

UG	PG/Research Scholars	Particulars	Mode of Payment
Rs. 500/ Sample	Rs. 700/ Sample	Spectrum Result	Payment is to be made by Demand Draft/Cash
Rs. 1000/Sample	Rs. 1500/Sample	Spectrum with Interpretation	

On receipt of the Payment along with the receipts, the samples will be registered for analysis and taken up for measurement. After analysis, the spectra along with the bill will be generated and sent to the users. Make sure the payment is received along with the samples.

**The DD must be drawn in favour of:
Dr.M.G.R. R Educational and Research Institute, Payable at Chennai
Velappanchavadi, Chennai- 600 077**

IR-Pilot Study-Identification Test and Contaminant Analysis

Samples can be identified based on verification methods described in Pharmacopoeia/standards specified and contaminants are measured using Shimadzu's proprietary identification algorithm (Japanese Patent No. 5205918) in combination with a spectral library containing more than 550 spectra for substances commonly detected as contaminants. The above tests can be done with additional charges on request.

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