

UV-VIS spectrophotometer

Ultraviolet–visible spectroscopy or ultraviolet-visible spectrophotometry (UV-Vis or UV/Vis) refers to absorption spectroscopy or reflectance spectroscopy in the ultraviolet-visible spectral region. This means it uses light in the visible and adjacent (near-UV and near-infrared [NIR]) ranges.

Instrument Details	
Model	Shimadzu 2450 UV-Spectrophotometer
Operating Range	200 – 900 nm
Photometric mode	Absorbance(Abs.), Transmittance (%), reflectance (%), Energy (E)
Mode of Operation	Solid, Liquid
Samples Required	10 mg (Liquid)

Applications:

- Structure elucidation of organic/ inorganic molecules.
- Determination of impurities in organic molecules
- Energy band gap, Absorption wavelength, Transmittance range

