



Absorption spectroscopy refers to spectroscopic techniques that measure the absorption of radiation, as a function of frequency or wavelength, due to its interaction with a sample. The sample absorbs energy, i.e., photons, from the radiating field. The intensity of the absorption varies as a function of frequency, and this variation is the absorption spectrum. Absorption spectroscopy is performed across the electromagnetic spectrum. In the present setup A corning glass tube of 30cm length is housed in a wooden casing. An inlet with stopper is provided in the center of the tube to introduce iodine specks. One end of the glass tube is closed & the other is provided with plane glass to illuminate the collimating slit of the spectrometer perfectly. Near the closed end of the tube a heating wire is wound to heat up the tube to develop vapour pressure in the iodine. The glass tube housing is provided with a stem to mount it in a stand. It can be adjusted in height.

### Technical Specifications:

Power supply	: 1 no. For heater.
Iodine tube	: one no. With inlet for pouring iodine granules
Heater	: nichrome wire based covered on glass tube
Lamp house	: 1 nos mounted on stand
Power for Operation	: 220-230VAC, 50Hz.

### Optional:

Spectrometer  
Grating  
Iodine granules

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