

## Fluorescence Spectrophotometer

The Fluorescence Spectrophotometer offers the ultimate sensitivity in fluorescence or emission profile of the complex under investigation. The instrument is easy to use and is controlled by FluorEssence software with Origin embedded for sophisticated data analysis.

### Make and Model:

Horiba Scientific Instrument /Fluoromax-4



### Specification/ Features:

- The sample is illuminated by a 150 W xenon (ozone-free lamp) with continuous output.
- The excitation monochromator has an optical range of 220 – 600 nm blazed at 330 nm.
- The emission monochromator has an optical range of 290 – 850 nm blazed at 500 nm.
- The slit widths may be continuously adjusted through the software from 0 - 30 nm bandpass.
- The FluoroMax 4 has two detectors.
  - i) Calibrated photodiode reference detector to correct for intensity and temporal fluctuations in the source during excitation scans.
  - ii) R928P red-sensitive PMT used in photon counting mode.

### Available mode of use:

- Solids
- Liquids
- Powders and thin films
- 3D excitation/emission scans
- Contour mapping,
- Kinetic scans

**Whether the facility is open to external users:** Yes

### Location:

Room no: 370, Second Floor, Central Facility

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