



## UV-Vis Spectrophotometer (Agilent Cary 4000)



### TECHNICAL DETAILS

**Manufacturer:** Agilent

**Model:** Cary 4000

**Extras:**

### HOW IT WORKS?

The Cary 4000 is a high-end UV-Vis spectrophotometer with photometric performance in the 175–900 nm range. The system is ideal for analysing liquid and solid samples or biotechnology samples with minimal sample preparation.

The equipment has a versatile suite of accessories including temperature control, liquid, and solid sample holders, multicell holders, and diffuse and specular reflectance accessories.

This equipment allows endpoint, multi-wavelength, spectrum, and kinetic measurements.

Wavelength 175 - 900 nm, spectral bandwidth 0.01 - 5.00 nm, maximum scanning speed 2,000 nm/min, and double beam photometric system

### APPLICATIONS

From the spectrum obtained, it is possible to determine the chemical or physical properties of the sample. In general, it is possible to:

- Identify molecules in a solid or liquid sample
- Determine the concentration of a particular molecule in solution
- Characterize the absorbance or transmittance through a liquid or solid—over a range of wavelengths
- Characterize the reflectance properties of a surface or measure the color of a material
- Study chemical reactions or biological processes

### ANALYSIS REQUIREMENTS

Liquid and solid samples

### ACCESS CONDITIONS

On-site and Remote (under quotation)