

AGILENT CARY ECLIPSE FLUORESCENCE SPECTROPHOTOMETER

The Measure of Confidence

Answers you can trust



Agilent Technologies is your premier resource and partner for molecular spectroscopy. Encompassing FTIR, UV-Vis-NIR and Fluorescence, Agilent offers you a comprehensive range of molecular spectroscopy solutions.

Answers you can trust

The Agilent Cary Eclipse Fluorescence Spectrophotometer is sensitive, accurate and flexible, and is designed to meet your immediate and future challenges. With accurate temperature control, no sample photo-bleaching and a range of measurement options, you can be sure to get answers you can trust.

- Lowest cost of ownership — with an exceptionally long life time of 3 billion flashes, the lamp typically lasts 10 years, minimizing lamp replacement and saving you money
- No need for cuvettes — the optional fiber optic probe delivers accurate results in a fraction of the time, improving your workflow and reducing your costs
- Exceptionally fast data collection — with a scan rate of up to 24,000 nm/min, you can scan the entire wavelength range in under 3 seconds and collect at 80 points/sec for sub-second kinetics measurements
- Sensitivity — detect picomolar amounts of fluoresce in both standard and micro cuvettes
- Flexibility — switch from fluorescence, phosphorescence, chemiluminescence or bioluminescence collection modes, at the click of a button

The Eclipse is the only fluorescence instrument with properly implemented room light immunity. It allows the measurement of samples with the lid open, closed or using fiber optics — so there is no size/shape limit to a sample that can be analysed.

Fibre optic sampling is the only solution for remote measurements inside glove boxes, ultra-clean environments, in the nuclear industry, or in anoxic chambers.

Visit:

www.agilent.com/chem/cary-eclipse



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Applications for Chemical Analysis

For Chemical Analysis applications the Cary Eclipse provides a robust and easy to use system catering for a range of needs.

Above its ultra-low cost of ownership, the fibre optic capabilities extend the utility of the system for simplified measurement of solid samples outside the sample compartment or for the direct measurement of cold, hot, or potentially dangerous samples, down to very low volumes.

Food

- Additives and supplements. Quality Assurance testing and monitoring
- Authenticity and food origin
- Food packaging and processing including hydrocarbon contamination through processing

Environmental

- Preliminary Identification of hydrocarbon origin in oil spills using synchronous scanning
- Waste water tracing into environmental flows by using fluorescent markers
- Investigation of the source of organic matter pollution in river and sea water

Chemical and Materials Applications

- Determination of fluorescent properties of cleaning products
- Investigation of the fluorescent properties of optical components
- Analysis of surface contamination by fluorescent organic compounds in manufacturing processes
- Polarised (anisotropy) measurements for understanding the molecular environment during polymer research

Applications for Life Sciences

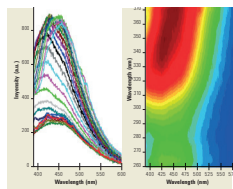
For Life Science applications the Cary Eclipse provides the flexibility of fluorescence, phosphorescence, chemi- and bioluminescence measurements. It is ideal for samples sensitive to light and with exceptionally fast data collection, for monitoring fast kinetic reactions. Applications include:

- Characterization of bio-labels for live cell imaging
- Characterizing GPCR oligomerization
- Analysis of the changes in tertiary structure of proteins
- Thermal stability of biocatalysts and pharmaceuticals

Click [here](http://www.agilent.com/chem/cary-eclipse) for further information on Life Science applications or visit www.agilent.com/chem/cary-eclipse

Application flexibility

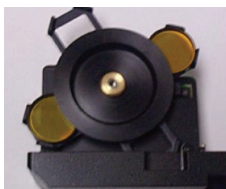
With a range of easy-to-use accessories available, the Cary Eclipse is able to do any fluorescence application.



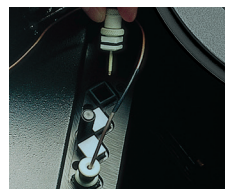
3D and contour software viewing



Fiber optics for liquid and solid samples



Automatic polarizers/fast filters



Temperature control with sample probes



Microplate reader

For more information:
Contact your local Agilent representative or visit:
www.agilent.com/chem/cary-eclipse

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