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The Agilent Cary Eclipse fluorescence spectrophotometer

Agilent Cary Eclipse Fluorescence Supplies

Agilent fluorescence spectrophotometers are augmented by a wide range of accessories and supplies, including a fast filter accessory, solid sample holder, 96- and 384-well microplates, and fiber optic probes and couplers.

Kits and Supplies for Fluorescence Accessories

Fast Filter Accessory Supplies

Fura-2 filters for Ca^{++} measurements, 7910043800

Indo-1 filters for Ca^{++} measurements, 7910043900

The Fast Filter Accessory quickly adapts the Cary Eclipse to a filter based instrument for measurement of rapid intracellular ion movements into and out of cells using ratiometric fluorescent probes. Such measurements are used in processes exhibiting fast kinetics that cannot be measured using high-speed scanning monochromators. A pair of bandpass filters appropriate to the fluorophore under investigation must be mounted in the fast filter accessory. Agilent offers filter pairs appropriate for measurement of the calcium binding dyes Fura-2 and Indo-1. The filters are 25 mm in diameter and are mounted in a black anodized aluminum ring.

Kits and Supplies for Fluorescence Accessories

Description	Part No.
Fura-2 filters for Ca^{++} measurements (340 and 380 nm bandpass filters, 20 nm SBW); requires fast filter accessory.	7910043800
Indo-1 filters for Ca^{++} measurements (405 and 495 nm bandpass filters, 20 nm SBW); requires fast filter accessory	7910043900

Cary Eclipse Fluorescence Accessory Supplies

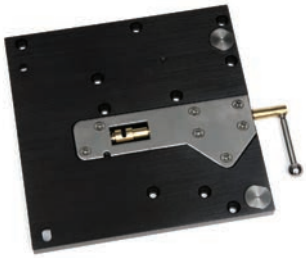
Description	Comments	Part No.
Solid Sample Holder Accessory Supplies		
Edge mounting sample holder	Used with solid sample holder accessory. Allows measurement of optical components including optical filters and other samples that cannot be mounted using the standard solid sample holder kit. Consists of an adjustable sample clamp plate; additional sample brackets, 2/pk; a sliding bracket; ball driver; and positioning screws, four each	9910102900
Powder cell and single crystal holder	Used with solid sample holder accessory. Allows measurement of powders and a variety of small crystals, gems and rocks. Consists of a mounting bracket; positioning screws, four each; cylindrical powder holder shell and powder holder lid; sample cups, two each; silica disks; and a crystal holder bracket	9910103000
Cuvette sample holder	Allows measurement of liquid samples located in traditional cuvettes. Consists of a cuvette holder for standard 10 mm pathlength cuvettes and mounting screws, two each, to secure the cuvette holder to the solid sample holder mounting plate. Allows for flexible front face cuvette measurements at a variety of angles for highly scattering or absorbing samples	9910103100
Temperature Probe Accessory Supplies		
Probe holder	Includes square end probes, 2/pk, for use in rectangular cuvettes with internal dimensions of 10 x 10 mm and regular end probe, 2/pk, for use in rectangular cuvettes with internal dimensions of 10 x 9.5 mm	9910066800
Probe holder, tapered end	Includes tapered end probes, 4/pk, suitable for use in microcells	9910066900
Extension lead, short, for probe holder	Required for mounting the probe inside the sample compartment	110381100
Extension lead, long, for probe holder	Required for mounting the probe outside the sample compartment	110380500

Cary Eclipse solid sample holder

Base Plate for Custom Accessories

This base plate incorporates locating holes and the Cary Eclipse rapid lockdown mechanism common to most Eclipse accessories. It can be used to mount custom accessories in the Eclipse sample compartment.

Description	Part No.
Base plate for custom accessories, fluorescence	210167490



Base plate for custom accessories, fluorescence, 210167490

Fluorescence Cuvettes and Flow Cells

Rectangular cells are the most commonly used cell type. We offer standard cells, sub-microcells with about 40 % of the volume of a standard cell of the same pathlength, and microcells with about 20 % of the volume of a standard cell. Low-volume triangular cells that fit directly into the standard 10 mm cuvette holder are also available. The microcell cuvettes are ideal for use when you have only a small amount of sample. All the listed cuvettes have the optimum Z-height (the distance between the base of the cell and the center of the light beam) for the Cary Eclipse fluorescence spectrophotometer.

Fluorescence Cuvettes and Flow Cells

Cell Type	Description	Cell Material	Volume	Path Length (mm)	Part No.
Flow Cell	Flow cell, 2 x 2 mm emission window	Far UV quartz	40 µL	10	6610023700
Rectangluar	Fluorescence cell, open top, pair	Far UV quartz	3.5 mL	10	6610000900*
	Fluorescence cell, stoppered, pair	Far UV quartz	3.5 mL	10	6610001200*
	Fluorescence cell, anaerobic	Far UV quartz	3 mL	10	6610021400
	Fluorescence cell, two sides mirrored with black-backed mirrored sides	Far UV quartz	3 mL	10	6610023500
	Sub-microcell, 4 x 10 mm window	Far UV quartz	400 µL	10	6610021500
	Sub-microcell, 2 x 2 mm window	Far UV quartz	40 µL	10	6610021600
	Sub-microcell, low head space, stoppered	Far UV quartz	40 µL	10	6610024200
Triangular	Microcell, stoppered, square base	Far UV quartz	1.7 mL	10	6610021200
	Microcell, open top, square base	Far UV quartz	1.7 mL	10	6610021300

*Matched pair

Cell Holder and Base

Description	Part No.
Cell holder, fluorescence	110664700
Cell holder base, fluorescence	210167200

Microplates

Our microplates are available in white for best overall well-to-well reproducibility, or black for the lowest background signal levels. Both types have high binding surfaces that bind medium and large biomolecules (greater than 10 kDa) that have hydrophobic and/or ionic groups. These microplates are recommended for the Cary Eclipse Microplate Reader Accessory.

96-well Microplates

Surface Treatment	Sterile	Color	Unit	Part No.
High binding	No	White	10/pk	6610022400
High binding	No	Black	10/pk	6610022500
High binding	No	White	100/pk	6610022800
High binding	No	Black	100/pk	6610022900
Untreated	Yes	White	10/pk	6610022300

96-well microplate, 6610022300

384-well Microplates

Surface Treatment	Sterile	Color	Unit	Part No.
High binding	No	White	10/pk	6610022600
High binding	No	Black	10/pk	6610022700
High binding	No	White	50/pk	6610023000
High binding	No	Black	50/pk	6610023100

Fiber Optic Probes and Couplers

Fiber Optic Probes and Couplers

Description	Notes	Part No.
Fiber optic dip probe coupler accessory, fluorescence	Allows a fiber optic dip probe to be connected using SMA 906 connectors. Includes a remote read connection to enable read triggering from the probe mounting arm. Requires the fiber optic dip probe (p/n 7910043100)	10076800
Fiber optic coupler accessory, fluorescence	Allows a remote read fiber optic probe to be connected using SMA 906 connectors. Allows remote sample measurement. Requires the remote read fiber optic probe (p/n 7910043000)	10076700
Fiber optic dip probe, fluorescence	Stainless steel fiber optic dip probe. For use with fiber optic dip probe coupler accessory. Probe tips must be ordered separately. Select from the fluorescence fiber optic liquid tips kit for quantitative work and the fluorescence fiber optic probe tip for solids.	7910043100
Fiber optic remote read 2 m probe, fluorescence	Hand-held stainless steel fiber optic probe with remote read switch. For use with fiber optic coupler accessory. Probe tips must be ordered separately. Select from the fluorescence fiber optic liquid tips kit for quantitative work and the fluorescence fiber optic probe tip for solids.	7910043000

Tips for Fiber Optic Probes

Description	Kit Contents	Part No.
Fluorescence fiber optic liquid tips kit	Includes two stainless steel liquid probe tips with black quartz base, angled to minimize back-scattering. 10 and 20 mm pathlengths.	9910104500
Fluorescence fiber optic solid tip kit	Includes stainless steel probe tip for solids designed to bring the light into the sample at 30 degrees to minimize back-scattered excitation	7910043200

Fiber optic dip probe coupler accessory, fluorescence, 10076800

Transmission probe and holder, 10076700

Fiber optic remote read 2 m probe, fluorescence, 7910043000

Fluorescence fiber optic liquid tips kit, 9910104500

Fluorescence fiber optic solid tip kit, 7910043200

Fluorescence Accessories

Cary Eclipse Automated Polarizer

The Agilent Cary Eclipse automated polarizer accessory enables fluorescence polarization or anisotropy to be measured with the Cary Eclipse fluorescence spectrophotometer. These measurements provide information about a molecule's orientation, conformation, and interaction with other molecules.

The automated polarizer accessory is software controlled, and automatically moves between the vertical and horizontal polarization positions. The accessory includes the motorized mechanism and the vertical and horizontal polarizers.

Features

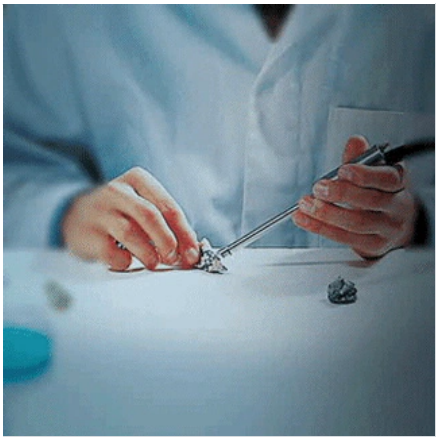
- Wavelength range from 275 to 750 nm
- Perform polarization-dependent wavelength scans and single point reads
- Measure polarization as a function of temperature using the thermal software application in the Agilent Cary WinFLR software
- Automatically moves out of the optical path when not in use
- Compatible with ambient, Peltier, and water thermostatted single and multicell holders
- Compatible with cryostat mount

Fluorescence Accessories

Cary Eclipse Fiber Optics

Measure light emission from liquids and the surfaces of solid samples with the Agilent fiber optics accessory for the Agilent Cary Eclipse fluorescence spectrophotometer. The fiber optics accessory takes light from the spectrophotometer to the sample for measurements away from the spectrophotometer.

The photometric performance with fiber optics is assured due to the unique room light immunity of the Cary Eclipse spectrophotometer. Hands-free sample measurements are possible with the dip probe coupler.



Features

- Combine with the Cary Eclipse fluorescence spectrophotometer's room light immunity for best performance with fiber optics.
- Measure light emission from liquids and the surfaces of solid samples.
- An optional dip probe enables hands-free measurements.

Fluorescence Accessories

Cary Eclipse Manual Polarizer

The Agilent manual polarizer accessory gives the Agilent Cary Eclipse fluorescence spectrophotometer the capability of measuring fluorescence polarization, which provides information about a molecule's orientation, conformation, and interaction with other molecules.

Use the manual polarizer accessory with the Agilent cryostat accessory and all single-cell and multicell cell holders. Cleaning and maintaining the polarizers is easy, and the accessory includes a wooden storage box.

Features

- UV transmitting thin-film material that transmits wavelengths 275 to 750 nm
- Angle selections include 0°, 90°, 55° (magic angle), and 35°
- Perform polarization-dependent wavelength scans and single point reads
- Compatible with ambient, Peltier, and water thermostatted single and multicell holders
- Compatible with cryostat mount

Fluorescence Accessories

Cary Eclipse Temperature Probes

The Agilent Cary temperature probe accessory accurately measures temperature with Agilent Cary spectrophotometers. It can be attached for remote monitoring outside of the sample compartment or used to monitor liquid sample temperatures inside cuvettes.

Features

- Measure the temperature of the sample or temperature in the sample compartment
- Probe range: –10 °C to +100 °C
- Probe size: 1.5 mm diameter, 15 mm long (approx.)

Fluorescence Accessories

Cary Eclipse Thermostatted Multicell Holders

Precise temperature control of up to four samples is possible with the Agilent Cary Eclipse Peltier multicell holder accessory. The accessory automates the measurements of four samples and has software-controlled peltier driven temperature control.

Use the Peltier multicell holder accessory with the Agilent Cary Eclipse fluorescence spectrophotometer for static temperature experiments as well as for temperature ramping fluorescence emission measurements.

Features

- Extremely stable temperature control or ramping for thermal melts.
- Minimal cell-to-cell variation with maximum difference of 0.2 °C at 37 °C.
- Uniform, easy-to-control stirring without fluctuations for reliable measurement of samples with whole cells or particulate matter.
- Four cell positions for higher throughput analysis.

Fluorescence Accessories

Cary Eclipse Thermostatted Single Cell Holders

For precise temperature controlled measurements of liquid samples with the Agilent Cary Eclipse fluorescence spectrophotometer, there are two thermostatted single cell holders available. A peltier cell holder, controlled using software, or a water thermostatted cell holder that requires a circulating water bath.

Features

- Temperature control between 20–60 °C using the water thermostatted cell holder, and 0–95 °C for the Peltier thermostatted cell holder.
- Reproducible temperature control: ± 0.1 °C for the Peltier thermostatted cell holder or ± 0.05 °C for the water thermostatted version.
- Accuratly measure ± 0.1 °C

Fluorescence Accessories

High-Throughput Fluorescence-Based mAb Aggregation Analysis Solution

The Fluorescence Workflow solution for rapid mAb aggregation analysis is a documented method that has been optimized by experts in the field to screen high sample loads common in clone selection and formulation optimization experiments. The workflow manual has been designed for the Cary Eclipse Fluorescence instrument fitted with the Microplate Reader Accessory and is perfectly suited to complement existing HPLC-SEC workflows. The method includes the step-by-step instructions to implement the complete workflow.

With superior speed and sensitivity, this workflow can reduce overall analysis time by up to 75% when used in conjunction with existing HPLC-SEC methods, allowing significant improvements in both cost and throughput.

The Fluorescence-Based Aggregation Analysis Workflow Guide

Features

- Get estimates of high-molecular weight aggregation in approximately 5 seconds per sample.
- Fast monoclonal antibody aggregation analysis.
- Add to existing HPLC-SEC chromatography workflows for time savings of up to 75%.
- mAb clone selection based on extrinsic fluorescence of PEPBOPS dye.
- High sensitivity screening for aggregation using specific dyes.
- Have confidence in data with an established method optimized by aggregation experts.
- High throughput.
- Sensitivity and specificity - dye only binds to aggregated samples, and does not contribute to background signal.
- No column washing or equilibration required.
- Minimize method development time.

Fluorescence Accessories

PCB-1500 Circulating Water Bath

The Agilent PCB-1500 is a circulating water bath for thermostatted accessories that are used with Agilent Cary spectrophotometers. Use the PCB-1500 with water thermostatted accessories when temperature control is required.

Features

- Temperature range of circulating water: 20 to 60 °C
- Temperature accuracy: ± 0.1 °C
- Reproducibility: ± 0.05 °C

Fluorescence Accessories

Rapid Mix Accessory SFA-20

The Hi-Tech Scientific SFA-20 is a stopped-flow accessory used to mix reagents for short-lived reactions. The SFA-20 has an empirical dead time of less than 8 ms, and when used with Agilent Cary spectrophotometers monitors reaction rates up to 100 s^{-1}.

The SFA-20 is available in three additional versions that enable microvolume mixing or mixing of more than two reagents. Optional extras include a pneumatic drive attachment, anaerobic kit, and a range of different size syringes.

Features

- High precision, gas-tight syringes mounted on a rigid drive platform outside the thermostatically controlled sample circuit stop the flow precisely and instantaneously.
- Easy set-up for variable ratio mixing applications: syringes are mounted outside the sample circuit, providing easy and rapid replacement.
- The platform, syringe mounting blocks, and thermostatted sample circuit are constructed from chemical-resistant materials to protect the instrument from spills and chemical attack.
- The flow circuit has no seals, so a wide temperature range of 0–80 °C can be achieved using an external thermostatted circulator/cooler.
- Inert sample circuit reagents travel in the inert sample circuit through an umbilical cord to the flow cell containing a high-efficiency T-format mixer.
- The SFA-20 can be driven by hand. A pneumatic drive can be added as an optional extra for better reproducibility. It is highly recommended for multimixing (mx) versions.

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