



Fluorescence Spectroscopy Cells

Source Guide

PerkinElmer offers an extensive range of high quality, precision fluorescence cells to meet virtually all application requirements. The cells available include macro, semi-micro and ultra-micro with a range of different light paths; flow-through cells and cells for magnetic stirrers.

All of the cells listed below are suitable for any fluorescence spectrophotometer which accommodates cells with a center height of 15 mm.

Macro Cells

Standard rectangular macro cells are the most frequently-used type of spectroscopy cell for routine liquids analysis. Each cell has a standard inside width of 10 mm and a base thickness of 1.25 mm. All macro cells contain four clear windows.

Macro with PTFE Lid or with PTFE Stopper

Material	Qty.	Light Path	Outside Dim. H x W x D mm	Inside Width	Base Thickness	Cell Volume	Windows	Part No.
with PTFE Lid								
Special Optical Glass	2	10 x 10 mm	45 x 12.5 x 12.5	10 mm	1.25 mm	3.5 mL	4	B0631104
Quartz SUPRASIL®	2	10 x 10 mm	45 x 12.5 x 12.5	10 mm	1.25 mm	3.5 mL	4	B0631107
with PTFE Stopper								
Special Optical Glass	2	10 x 10 mm	46 x 12.5 x 12.5	10 mm	1.25 mm	3.5 mL	4	B0631110
Quartz SUPRASIL®	2	10 x 10 mm	46 x 12.5 x 12.5	10 mm	1.25 mm	3.5 mL	4	B0631113

Semi-micro Cells

Semi-micro cells have the same outside dimensions as the Macro cells but the cell walls have been thickened slightly, limiting the interior sample chamber width to 4 mm. This reduces the sample volume requirements by 60%. Each cell has a base thickness of 3.2 mm and each package contains two cells with four clear windows each.

Semi-micro with PTFE Lid or PTFE Stopper

Material	Qty.	Light Path	Outside Dim. H x W x D mm	Inside Width	Base Thickness	Cell Volume	Windows	Part No.
with PTFE Lid								
Special Optical Glass	2	10 x 4 mm	45 x 12.5 x 12.5	4 mm	1.25 mm	1.4 mL	4	B0631115
Quartz SUPRASIL®	2	10 x 4 mm	45 x 12.5 x 12.5	4 mm	1.25 mm	1.4 mL	4	B0631116
with PTFE Stopper								
Special Optical Glass	2	10 x 4 mm	46 x 12.5 x 12.5	4 mm	1.25 mm	1.4 mL	4	B0631117
Quartz SUPRASIL®	2	10 x 4 mm	46 x 12.5 x 12.5	4 mm	1.25 mm	1.4 mL	4	B0631118

Keep near your instrument for easy reordering.



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Micro Cells

Micro cells have the same outside dimension as the Macro cells but the cell walls have been thickened, limiting the interior sample chamber width to 2 mm. This reduces the sample volume requirements by 80%.

Each package contains two cells with two clear windows each. All Micro cells listed have black sidewalls and base.

Micro Cells without Lid

Material	Qty.	Light Path	Outside Dim. H x W x D mm	Base Thickness	Cell Volume	Remarks	Part No.
Quartz SUPRASIL®*	2	5 x 5 mm	33.5 x 7.5 x 7.5	1.25 mm	600 µL		B0631123
Quartz SUPRASIL®*	2	5 x 5 mm	46 x 7.5 x 7.5	1.25 mm	850 µL	w/PTFE Stopper NS 5	B0631142
Micro Cell Adapter	4						L2250139

*Requires Microcell Adapter (L2250139). Microcuvette Adapter allows 5 mm pathlength microcells to be used in any of the cuvette holders. (pkg. 4)

Ultra-Micro Cells

Ultra-micro cells use a narrower sample chamber, raising it directly into the center of the light path and masking it with black quartz. This design optimizes the use of smaller sample volumes. All Ultra-micro cells contain one cell and three clear windows.

Ultra-micro Cells with PTFE Stopper

Material	Qty.	Light Path	Center Height	Outside Dim. H x W x D mm	Aperture	Chamber Volume	Filling Volume	Windows	Part No.
Quartz SUPRASIL®	1	10 x 2 mm	15 mm	45 x 12.5 x 12.5	5 x 2 mm	100 µL	120 µL	3	B0631124

Flow-through Cells

Flow-through cells are used for measuring samples with continuous flow or with Sippers where individual samples are aspirated into the cell. All cells have center heights of 15 mm. Each package contains one cell with two clear windows. The cells listed below are Compact with two screw connectors, M6x1 and 500 mm length FEP tubing – 1.9 mm o.d., 1.1 mm i.d.

Flow-through Cells for Fluorescence Spectroscopy

Material	Qty.	Light Path	Center Height	Outside Dim. H x W x D mm	Cell Volume	Windows	Part No.
Macro Inlet/Outlet Tubes on Top							
Quartz SUPRASIL®	1	10 x 6.5 mm	15 mm	45 x 12.5 x 12.5	750 µL	3	B0631126
Semi-micro Inlet/Outlet Tubes on Top							
Quartz SUPRASIL®	1	10 x 4 mm	15 mm	45 x 12.5 x 12.5	450 µL	3	B0631127
Quartz SUPRASIL®*	1	3 x 3 mm	15 mm	35 x 12.5 x 12.5	100 µL	3	B0631133

*Compact with two (2) screw connectors and FEB tubing.

Fluorescence Cells for Magnetic Stirrers

Material	Qty.	Light Path	Outside Dim. H x W x D mm	Inside Width	Cell Volume	Windows	Part No.
Macro/Semi-micro							
Quartz SUPRASIL®	1	4 x 4 mm	45 x 12.5 x 12.5	4 mm	500 µL	4	B0631132
Magnetic Stirrer Fleas	6						04978499

Note: The useful spectral range for Special Optical Glass is between 320 and 900 nm and for Quartz SUPRASIL® it is 200 and 900 nm.



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