SpectroPipetter Microcell

Easy to Use -- Just Pipette and Measure

The PIP-10-2 SpectroPipetter Microcell is a combination micropipetter and 10-mm pathlength microcell for low-volume sampling. Samples are loaded into a capillary tube with an optical fiber plunger, which is activated by depressing the thumbpad and releasing it to draw in the fluid. A mirror on the distal side of the capillary completes the optical path.

Requires 2 µL of Sample

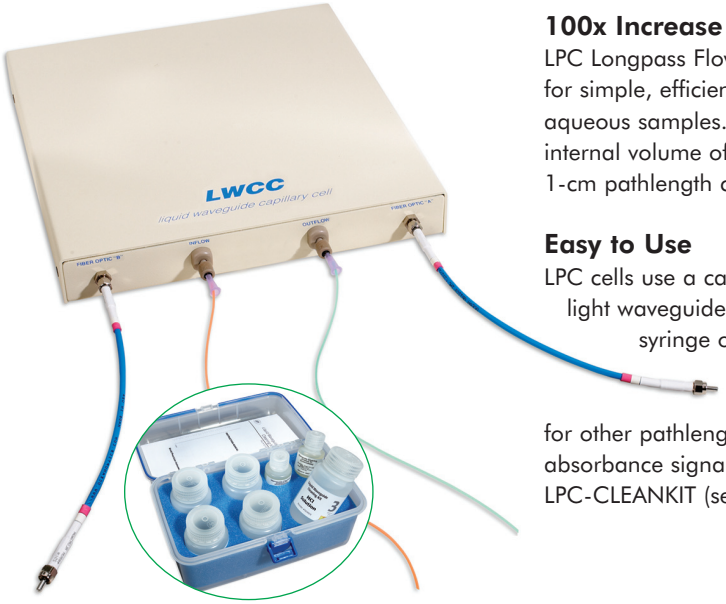
The pipetter is equipped with a bifurcated fiber, which couples to our spectrometers and compact light sources to create low-volume absorbance systems. The SpectroPipetter requires only 2 µL of sample for a spectral measurement.

Cleaning Kit

To remove fluid or dye from the cell, use the PIP-UCK Cleaning Kit. It contains an ultrasonic cleaning bath (at right) and a bottle of cleaning solution. Additional PIP-UCK-CS Cleaning Solution (below right) is also available.

Specifications	
Wavelength range:	230-850 nm
Sample volume:	2 µL
Light pathlength of cell:	10 mm
Temperature range:	4 °C to 99 °C
Optical fiber length:	1.3 m
Core diameter of launch fibers:	Bundle of (3) 200 µm optical fibers
Core diameter of return fiber:	200 µm

Longpass Flow Cells



100x Increase in Sensitivity

LPC Longpass Flow Cells couple to our spectrometers and light sources for simple, efficient measurements of low-volume, low-concentration aqueous samples. With the LPC-1, you have a 1-meter cell with an internal volume of only 240 µL, giving you 100x the sensitivity over a 1-cm pathlength cuvette holder as your sampling device.

Easy to Use

LPC cells use a capillary tube as both the sample compartment and the light waveguide. You inject the sample into the fluidic ports with a syringe or pump; optical fibers connect to SMA 905 Connectors to deliver and return light to the spectrometer. We offer these cells in 1- and 5-meter pathlengths (call for other pathlengths). A 5-meter cell (250 µL/meter) increases the absorbance signal 500x more than a 1-cm cuvette. Also available is the LPC-CLEANKIT (see inset), a waveguide cleaning kit for the LPCs.

Specifications			
Dimensions:	254 mm x 279 mm	Maximum sample temperature:	160 °C
Weight:	140 g	Tubing inner diameter:	550 µm
Wavelength range:	230-800 nm for LPC-1, 325-700 nm for LPC-5	Tubing:	Fused silica inner tubing coated with Teflon AF
Tubing volume:	250 µL/meter	Fluid fittings:	1/16", 1/32" compression fittings
Fiber connectors:	SMA 905	Maximum pressure:	2000 psi
Fiber core diameter:	400 µm	Chemical resistance:	Most organic and inorganic solvents