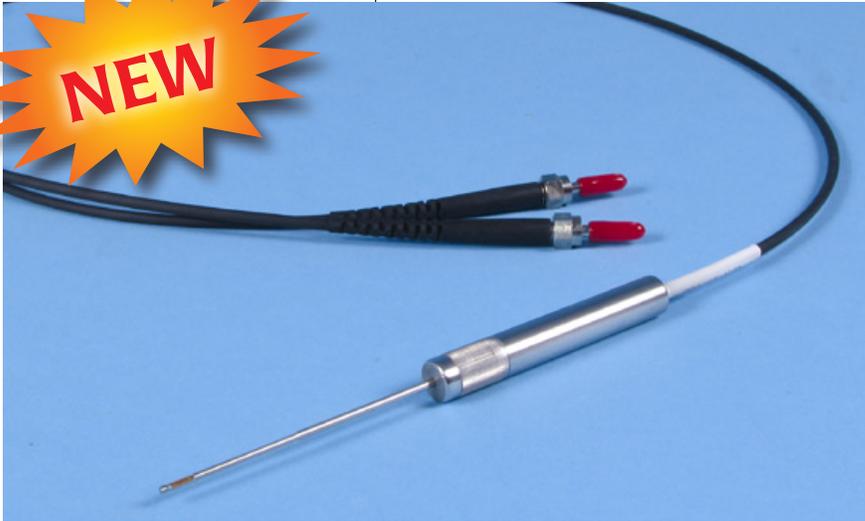




DipTip™ Mini

Miniature UV/VIS/NIR Dipping Probes

The World's Smallest Dipping Probe Just Got More Efficient



The Mini DipTip is much more efficient than the standard DipTips and connects with most standard spectrometers using a 600µm connection.

DipTip™ is a miniature transmission probe for microliter spectroscopic sampling. DipTip's tip diameter is only 1.5 mm—the size of a 17-gauge needle. It will fit into all micro centrifuge tubes on the market and is a useful tool for measuring protein and DNA samples. It can also be used for a dissolution system.

Because of WPI's proprietary optical design, the standard DipTip is not only four to five times smaller in diameter than any other product on the market, but also costs 50% less. Now, the new Mini DipTip (with smaller handle and shorter shaft) is ten times more efficient than the standard DipTip.

Microliter samples can be analyzed cost effectively when you combine the

Mini DipTip with one of the following:

- The Fiber optic-based spectrometer (Tidas I) and a light source (D4H and FO-6000)
- A spectrophotometer (Tidas 100)
- WPI's biophotometric detection system (LEDspec)

The Mini DipTip is ideal for multi-channel applications.

- 10 times more efficient than standard DipTips
- Compatible with many standard spectrophotometers (600µm fiber optic coupler connections)
- 2, 5 and 10mm light pathlengths available
- More flexible cables than standard DipTips

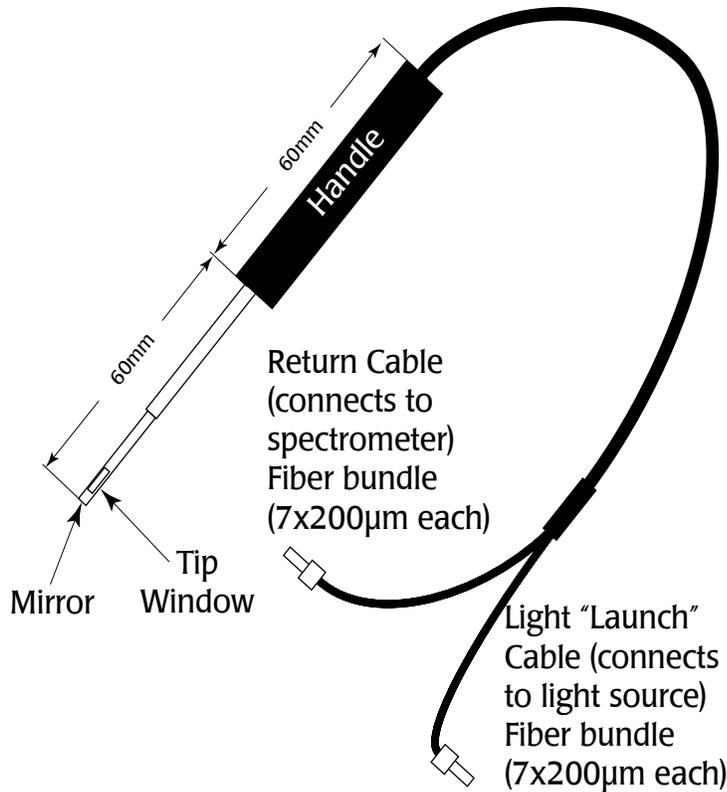


This tiny shaft contains 14 fused silica fibers, all polished to a perfect tip. Light travels through seven fibers through the sample. It is reflected off a mirror in the tip and returns to the spectrometer through the sample and the other seven fibers.

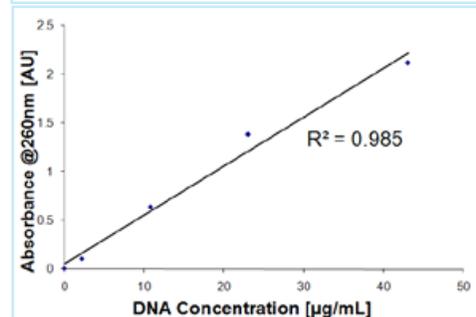
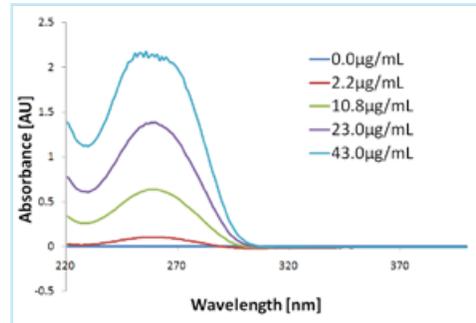


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Connect the fiber optic connectors to the spectrometer and the light source. Hold the Mini DipTip by the handle. Don't bend the tip.



DNA samples (with a sample volume of 50µL inside mini centrifuge PCR vials) were measured in PBS with concentrations 0–43µg/mL using a Tidas 100 spectrophotometer.

DIPTIP-UV-MINI Specifications

Tip Diameter	1.5mm
Light Pathlength	2, 5, 10mm
Wavelength Range (nm)	200-1000
Sample Volume Required	20-50µL
Distance From Tip to Upper Edge of Sample Window	7mm
Fiber Length	1.0m
Fiber Optic Connection	SMA 905
Launch Fiber Bundle (7 x 200µm) NA=0.22	Ø=680µm*
Return Fiber Bundle (7 x 200µm) NA=0.22	Ø=680µm*

*Circular packaging of the fiber bundle results in an active area equivalent to a fiber with a core diameter of 680µm. Using a 600µm connection is recommended and will result in negligible light loss.

Ordering Information

PART NUMBER	DESCRIPTION
DIP-UV-MINI-2	Mini Dipping Probe, UV/VIS/NIR, 2mm
DIP-UV-MINI-5	Mini Dipping Probe, UV/VIS/NIR, 5mm
DIP-UV-MINI-10	Mini Dipping Probe, UV/VIS/NIR, 10mm

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