



New Objective - Leaders in Nanospray Innovation

Leading high-sensitivity LC-MS research through innovative life science sample prep and delivery tools.

Founded in 1997 on PicoTip™ technology, a revolutionary line of emitters for LC-MS. New Objective has remained on the cutting edge of nanobore chromatography and nanospray-based mass spectrometry through close communication with our customers, continuous innovation, and dedication to quality.

Fused-silica PicoTip® emitters for online electrospray are available in the SilicaTip™ and the TaperTip™, which differ in size and operational flow rates. TaperTips are very robust emitters used in microspray applications. Your emitter-mounting hardware must accommodate 150 or 360 µm outside diameter (OD) fused-silica tubing.

Coating Options

In order to perform electrospray, high voltage must be supplied to the mobile phase. The electrical contact can be made in either of two methods — indirectly through a conductive coating on the emitter, or directly through a junction. Each of these methods requires different styles of emitters. Once you have determined your contact method, select the corresponding coating. Distal coatings are most durable.

Junction Contact with Distal-Coating (D)

The electrical contact is made to the outside of the emitter, which has a conductive coating on the distal end. The voltage contacts the mobile phase through the gap between the emitter and the transfer line. PicoTips® with a distal coating have -D- in their stock numbers. Use primarily with PEEK™ fittings.

Tip Contact Using the Standard Coating (CE)

The electrical contact is made to the outside of the emitter. The emitter has a conductive coating on the tip where the voltage contacts the mobile phase. PicoTips with a standard coating have -CE- in their stock numbers. Use primarily with PEEK fittings.

Junction Contact for Uncoated Tips (N)

The electrical contact is made to the fitting holding the emitter. Voltage contact is made directly to the mobile phase. PicoTips that are uncoated have -N- in their stock numbers. Use primarily with metal fittings.

Tip size (µm)	5 L/min	LC column (m)
TaperTip™ 100	↑ 1000	200
30		100
20	↓ 100	75
SilicaTip™ 2		50
	10	
	1 nL/min	

