

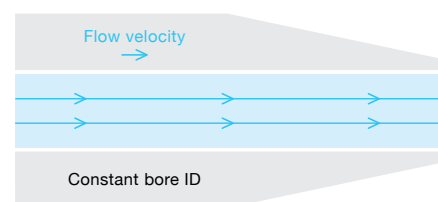


Trajan CB Emitters No clogs. Just uptime*

Boost throughput - reduce downtime from emitter clogs

In proteomics labs, every minute of instrument downtime slows results and reduces throughput. That's why Trajan CB Emitters are engineered to resist clogs, reduce downtime, and keep LC-MS workflows running without interruption.

Unlike pulled emitters, Trajan CB Emitters feature a constant bore design that maintains a uniform internal diameter (ID) to the tip – reducing clog risk and delivering consistent performance across extended runs.



Trajan CB Emitters feature a constant bore design that resists clogging

Key benefits

Reduce downtime and sample reruns

Constant bore design resists clogging – reducing downtime and reruns while boosting sample throughput.

Achieve high sensitivity

Precision-cleaved, zero dead volume (ZDV)-compatible ends paired with optimized tip geometry - delivers high sensitivity and deep proteome coverage.

Ensure accurate and precise quantification

Optimized tip geometry delivers efficient, stable spray for enhanced peptide detection and reproducible performance across runs.

Achieve high reliability through low variability

Tight manufacturing tolerances and rigorous quality control ensures emitter-to-emitter reproducibility – reducing the need for reruns after emitter changes.

Run any sample

Chemically inert fused silica supports all sample types – including phosphorylated samples – avoiding adsorption associated with stainless steel.

“Because these emitters have a completely straight internal bore with no taper, they very rarely clog if you're careful with them. In fact, it's almost impossible to block them.”

Dr Matt Padula,
Director - Proteomics and
Metabolomics Platform,
University of Technology Sydney, Australia

For further information visit www.trajanscimed.com/emitters

*Clog resistance may vary based on sample properties



Three coating variants for MS source compatibility

Trajan CB Emitters are manufactured in-house to ensure consistent quality and process control. They are available in three coating options to suit a range of MS source configurations, and each variant comes in 10 µm and 20 µm inner diameters – giving scientists flexibility to balance sensitivity and robustness for their workflow.

Uncoated (UC)

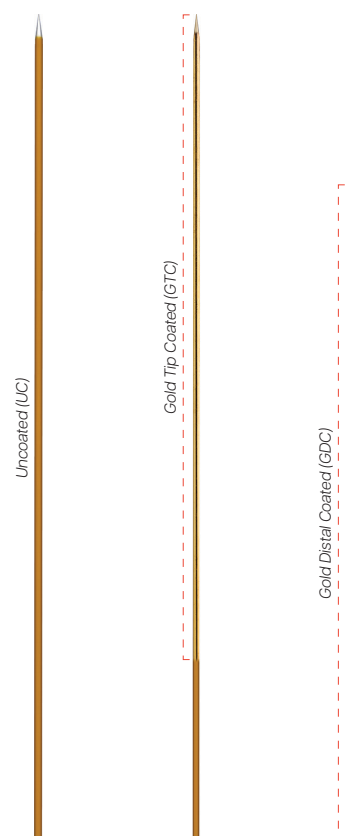
For source configurations where voltage is applied at the liquid junction rather than the emitter, these emitters deliver reliable performance without the need for a conductive coating.

Gold Tip Coated (GTC)

For source configurations where voltage is applied directly to the emitter body through its conductive coating, these emitters deliver enhanced spray stability and efficiency – providing greater sensitivity and reproducibility in non-FAIMS applications.

Gold Distal Coated (GDC)

Ideal for FAIMS configurations, these emitters feature a non-conductive tip that eliminates arcing associated with stainless steel. This allows the emitter to be positioned closer to the source, improving spray efficiency and stability.



Ordering information for Trajan CB Emitters

UNCOATED (UC)

Part number	Description	Qty
063200000	Trajan CB Emitter, Uncoated Fused Silica, 360 µm OD x 10 µm ID x 50 mm L	5
063200102	Trajan CB Emitter, Uncoated Fused Silica, 360 µm OD x 20 µm ID x 40 mm L	5
063200100	Trajan CB Emitter, Uncoated Fused Silica, 360 µm OD x 20 µm ID x 50 mm L	5
063200101	Trajan CB Emitter, Uncoated Fused Silica, 360 µm OD x 20 µm ID x 62.5 mm L	5

GOLD TIP COATED (GTC)

Part number	Description	Qty
063220000	Trajan CB Emitter, Gold Tip Coated Fused Silica, 360 µm OD x 10 µm ID x 50 mm L	5
063220100	Trajan CB Emitter, Gold Tip Coated Fused Silica, 360 µm OD x 20 µm ID x 50 mm L	5

GOLD DISTAL COATED (GDC)

Part number	Description	Qty
063240000	Trajan CB Emitter, Gold Distal Coated Fused Silica, 360 µm OD x 10 µm ID x 50 mm L	5
063240100	Trajan CB Emitter, Gold Distal Coated Fused Silica, 360 µm OD x 20 µm ID x 50 mm L	5

ACCESSORIES (FOR INSTALLATION)

Part number	Description	Qty
063302	Trajan CB Emitter PEEK sleeve, 1/32" OD x 0.38 mm ID x 20 mm L	5

Specifications

Outer Diameter (OD)	360 ± 10 µm
Inner Diameter (ID)*	10 µm ± 2 µm 20 µm ± 2 µm
Tip angle	13° ± 1°
Material	Fused silica with polyimide coating

*Choose 10 µm ID for clean samples requiring maximum sensitivity at low nanoLC flow rates. For complex samples – or higher flow rates – select 20 µm ID.



Scan the QR code to find the emitter variant compatible with your MS source