

Fused silica nanospray emitters

Tapered Tips

Intended use	Trajan emitters are optimized for high resolution with extended life in a wide variety of mass spectrometry applications and workflows. Trajan's nanospray emitters (ID: 10 - 20 µm) are designed specifically for low-flow applications and have been tested extensively under typical proteomics conditions.
Product	<ul style="list-style-type: none"> • Trajan emitters are compatible with common mass spectrometry workflow conditions including operating voltages, flow-rates, and solvents. • A variety of lengths, tip geometries, internal diameters, and metal-coating options are available to best suit your specific workflow requirements and instrument configurations.
Precautions	<ul style="list-style-type: none"> • Caution should be taken to avoid injury (especially to the eyes) when working with fused silica (quartz). It is recommended to use safety glasses and avoid unnecessary bending or breaking of the fused silica. • In the event of an emitter breakage or emitter replacement, observe local requirements for disposal of 'broken glass'. • Narrow-bore emitters can lead to higher back-pressure in the system if partial blockages occur; be careful not to over-pressurize the system as the emitter may dislodge from the fitting/connection. • Overtightening of the fused silica emitter can cause fractures, leading to higher risk of dead-volume and instrument contamination.
Storage instructions	<ul style="list-style-type: none"> • Packaging should be stored at room temperature and ideally in a clean environment • Recommended to close the packaging lid when not actively retrieving an emitter to avoid contamination of the emitters with airborne dust and debris.
Slide preparation	<ul style="list-style-type: none"> • Caution should be taken to avoid injury (especially to the eyes) when working with fused silica (quartz). It is recommended to use safety glasses and avoid unnecessary bending or breaking of the fused silica. • In the event of an emitter breakage or emitter replacement, observe local requirements for disposal of 'broken glass'. • Narrow-bore emitters can lead to higher back-pressure in the system if partial blockages occur; be careful not to over-pressurize the system as the emitter may dislodge from the fitting/connection. • Overtightening of the fused silica emitter can cause fractures, leading to higher risk of dead-volume and instrument contamination.
Compatible instruments	See product brochure for instrument compatibility information. It is recommended to only use emitter tips that correspond to the instrument to avoid instrument damage and/or poor results.
Quality Management System	Manufactured in a certified ISO 9001 environment.

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Specifications	
Material	Fused silica (quartz) with polyimide coating
Cutting Method	Precision cleaved
Coating Length	40 mm
OD	360 μm \pm 10 μm
ID	10 μm - 30 μm \pm 2 μm 30 μm - 50 μm \pm 3 μm
Length	Lengths available from 30 mm -150 mm
Units/Pack	5
Pack Dimensions	78 mm x 75 mm x 17mm
Disposal	Refer to local regulations. Please recycle the packaging where possible.

Technical Data						
Part Number	Angle	OD	ID	L	Metalized Coating	Compatible With
063200000	13°	360 μm	10 μm	50 mm	Uncoated	• PharmaFluidics $\mu\text{PAC}^{\text{TM}}$ Flex iON Connect ESI-MS interface
063220000					Tip-Coated (40 mm)	• Thermo Scientific Nanospray Flex TM ion Source • PharmaFluidics μPAC Flex iON Connect ESI-MS interface
063240000					Distal-Coated (40 mm)	• Thermo Scientific Nanospray Flex ion Source • Thermo Scientific FAIMS Pro TM Interface • PharmaFluidics μPAC Flex iON Connect ESI-MS interface
063200102	13°	360 μm	20 μm	40 mm	Uncoated	• Thermo Scientific Nanospray Flex ion Source
063200100	13°	360 μm	20 μm	50 mm	Uncoated	• PharmaFluidics μPAC Flex iON Connect ESI-MS interface
063220100					Tip Coated (40 mm)	• Thermo Scientific Nanospray Flex ion Source • PharmaFluidics μPAC Flex iON Connect ESI-MS interface
063240100					Distal Coated (40 mm)	• Thermo Scientific Nanospray Flex ion Source • Thermo Scientific FAIMS Pro Interface • PharmaFluidics μPAC Flex iON Connect ESI-MS interface
063200101	13°	360 μm	20 μm	62.5 mm	Uncoated	• Waters NanoFlow TM Source • Waters NanoLockSpray TM Source • Waters Z-spray TM Source • Waters Micromass TM Source

Contact us about custom emitter lengths and geometries for your specific workflows

For more information about this product visit www.trajanscimed.com or contact techsupport@trajanscimed.com

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