

PRODUCT OVERVIEW

Aurora[®] Frontier[™]

60 cm x 75 µm



The deepest sample analysis possible.

The Aurora[®] Frontier[™] is a column that's not only sensitive, robust and easy to use, but significantly improves sample separation and definition. Combining a suite of innovations incorporated throughout our Generation 4 Aurora Series[®] range, including further improved spray stability and increased robustness, Generation 4 Aurora[®] Frontier[™] boasts incredible performance using long sample gradients, and is the first column ever to enable near-full proteome coverage due to its unmatched peak capacity.

Product Benefits

- + Integrated packed emitter
- + True-zero pre-column dead volume
- + 'QuickFit' plug and play technology
- + High-pressure fitting holds >1700 bar

Ideal for:
ultra-deep
proteome analysis

5-15
SPD

90-180_{min}
Gradients

Specifications

Column format	Analytical column
Column type	Reversed-phase
For use with	UHPLC
Length	60 cm
Inner Diameter	75 µm
Pore size	120 Å
Pressure	>1700 bar
Temp. limits	60°C
Particle size	1.7 µm
pH stability	1-8
Stationary phase	C18
Suggested flow rate	100-300 nL/min

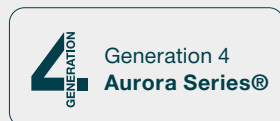
Compatibility



	Aurora [®]	Aurora [®] CSI	Aurora [®] XT
CaptiveSpray		✓	
CaptiveSpray 2		✓	
CaptiveSpray Ultra		✓	
EASY-Spray			✓
Nanospray Flex	✓		✓
Newomics UniESI			✓
Newomics DuoESI			✓
Optiflow Turbo V			
OptiFlow Pro			

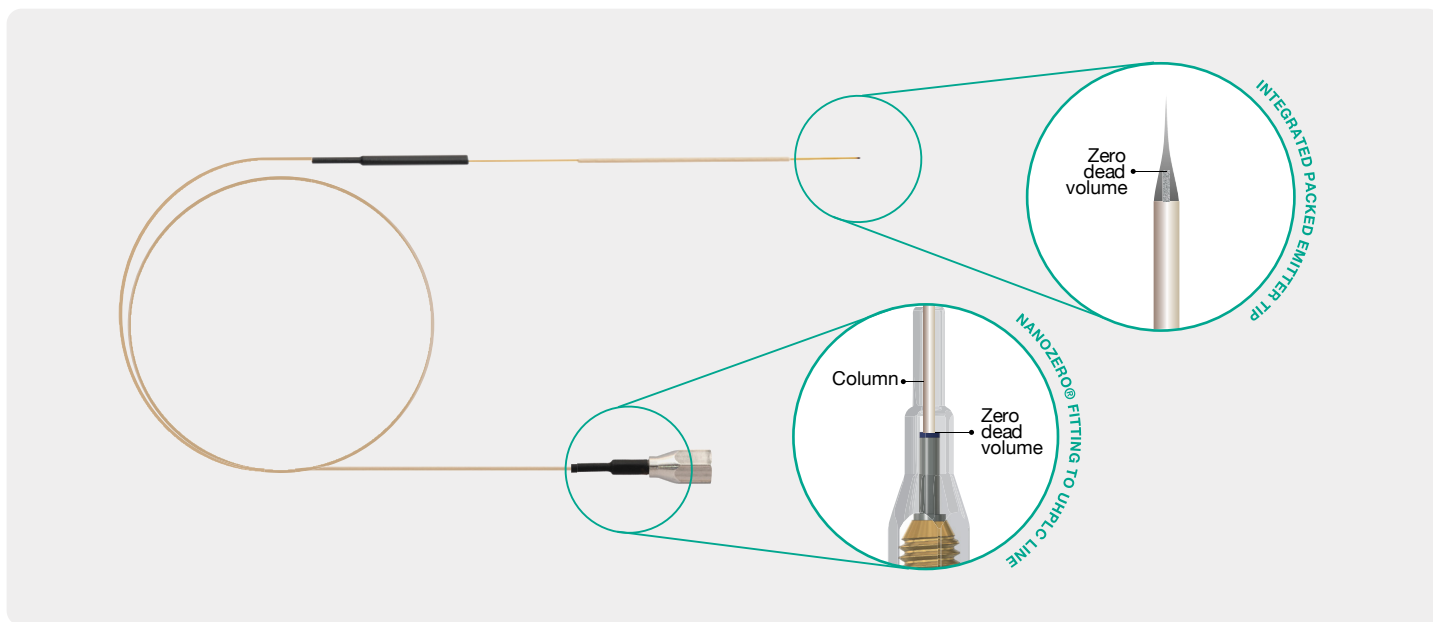


Introducing the HeatSync[™] range - the perfect companion to make the world's best chromatography even better. Includes the new HeatSync[™] Controller and HeatSync[™] Column Heater.



Ion Opticks Pty Ltd
 ABN: 99 621 674 459
 12 Gipps St
 Collingwood VIC 3066
 Australia

www.ionopticks.com



Single shot.
10,000+ proteins.
1 species.

Figures 1, 2 & 3: Identified unique proteins and peptides from HeLa Tryptic Digest injections on an Aurora® Frontier™ 60 cm x 75 µm column using different gradient lengths and instruments. Samples were either run on a Vanquish Neo UHPLC coupled to a Thermo Orbitrap Exploris 480 running a 90 min (1.5 µg injection; n = 5) or 180 min (3 µg injection; n = 4) sample gradient (300 nL/min), or a U3000 UHPLC coupled to a Thermo Orbitrap Exploris 240 +FAIMS Duo running a 180 min (3 µg injection; n = 4) sample gradient (200 nL/min). Samples were acquired using a DIA workflow and searched using DIA-NN (1% FDR) using an 8 fraction library created using small m/z window DIA acquisitions between m/z 380 and 985. Unique proteins counted at the Protein level.

Figure 1
Unique Protein IDs

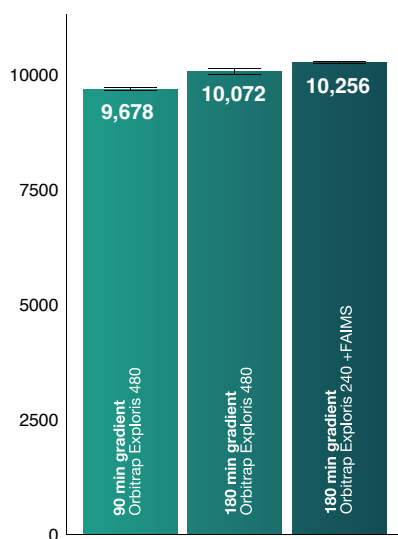


Figure 2
Unique Peptide IDs

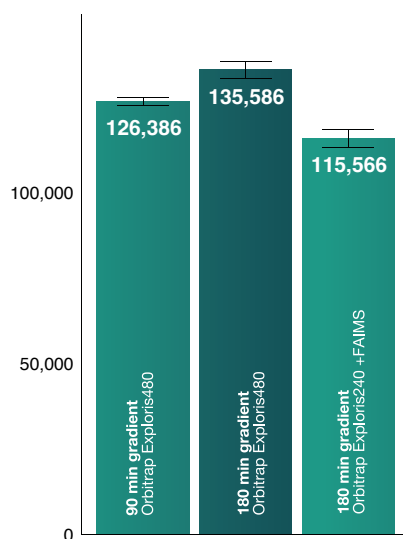
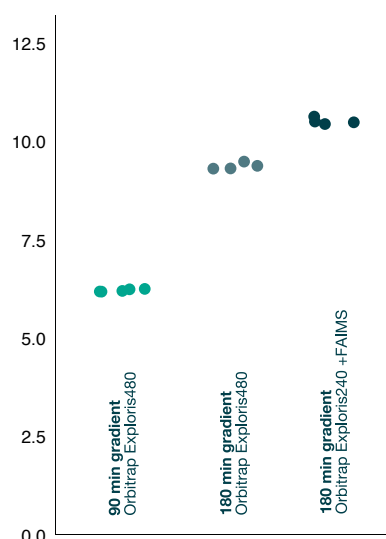


Figure 3
Peak Width FWHM (Sec)



Further literature at:
ionopticks.com
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