

PRODUCT OVERVIEW

Aurora[®] Elite[™]

15 cm x 75 µm



Our 'experiment-in-a-day' solution.

The perfect balance between throughput and depth of coverage in complex samples.

A product made for researchers, by researchers. With further improved spray stability and increased robustness, Generation 4 Aurora[®] Elite[™] is specifically tailored to achieve the deep discovery synonymous with Aurora Series[®] columns, in cadence with researchers wishing to leverage 'experiment in a day' workflows.

Product Benefits

- + High throughput
- + Exceptional coverage for rate of throughput
- + Balanced throughput & depth of coverage

Ideal for:
balance between
throughput and
sensitivity

30-60
SPD

10-45_{min}
Gradients

Specifications

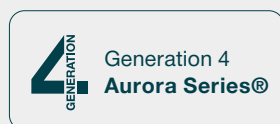
Column format	Analytical column
Column type	Reversed-phase
For use with	UHPLC
Length	15 cm
Inner Diameter	75 µm
Pore size	120 Å
Pressure	>1700 bar
Temp. limits	60°C
Particle size	1.7 µm
pH stability	1-8
Stationary phase	C18
Suggested flow rate	100-600 nL/min (can be varied to suit particular applications)

Compatibility

	Aurora [®]	Aurora [®] CSI	Aurora [®] XT	Aurora [®] XS
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

Spectacular protein IDs. Every run. Every time.

More protein IDs. Less time.

Identify more than 6000 proteins per sample using our 50 samples per day method (20 min gradient).

Figures 1, 2 & 3: Identified unique proteins, peptides and average Full Width at Half Maximum (FWHM) from 80 ng HeLa Tryptic Digest injection on an Aurora® Elite™ 15 cm x 75 μm column using different gradient lengths. Samples were run on a Waters ACQUITY UPLC M-Class coupled to a Bruker timsTOF Pro, dia-PASEF acquisition. Data analysed using DIA-NN.

Figure 1
6000+ Unique Protein IDs

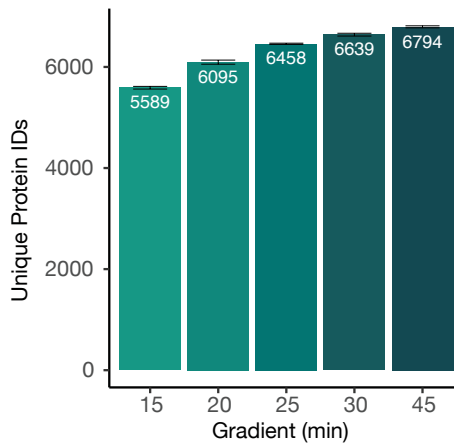
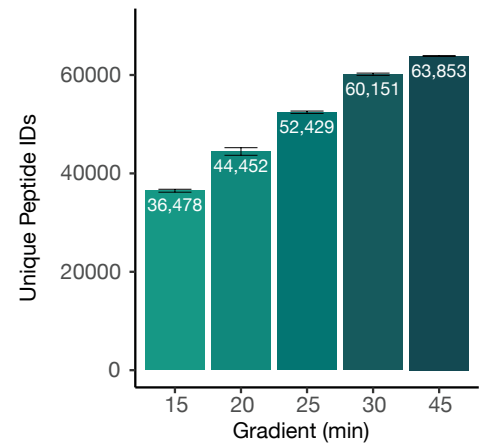


Figure 2
60,000+ Unique Peptide IDs



High quantitative accuracy.

Identify large numbers of unique proteins without compromising quantitative accuracy.

Figures 4: Yeast tryptic digest was spiked into a HeLa tryptic digest (200 ng) in different ratios (Sample A - 45 ng; Sample B - 15 ng). Samples were run on a Waters ACQUITY UPLC M-Class coupled to a Bruker timsTOF Pro, dia-PASEF acquisition using an Aurora® 15 cm x 75 μm column. Data analysed using DIA-NN. Each point represents a unique protein with ratios calculated between the A and B samples.

Figure 5: Boxplot demonstrating average ratio and interquartile range of data. Expected ratios are indicated with dashed lines.

Figure 3
Peak Width FWHM (Sec)

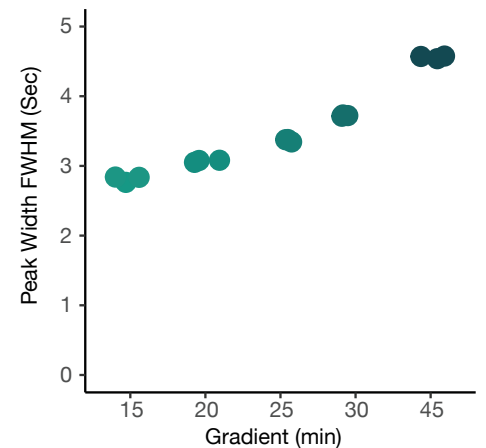


Figure 4

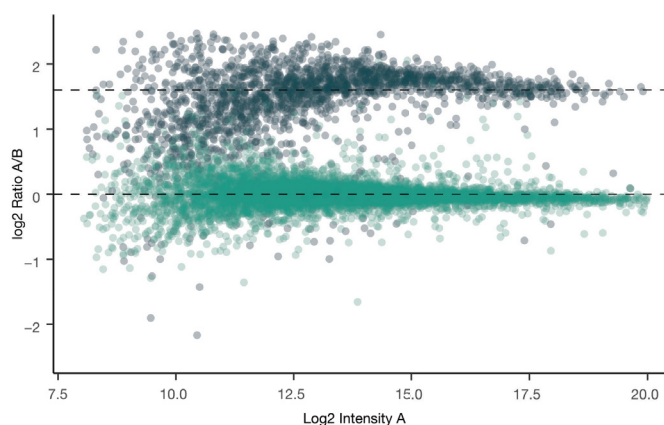
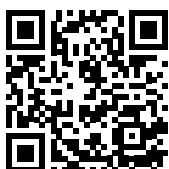
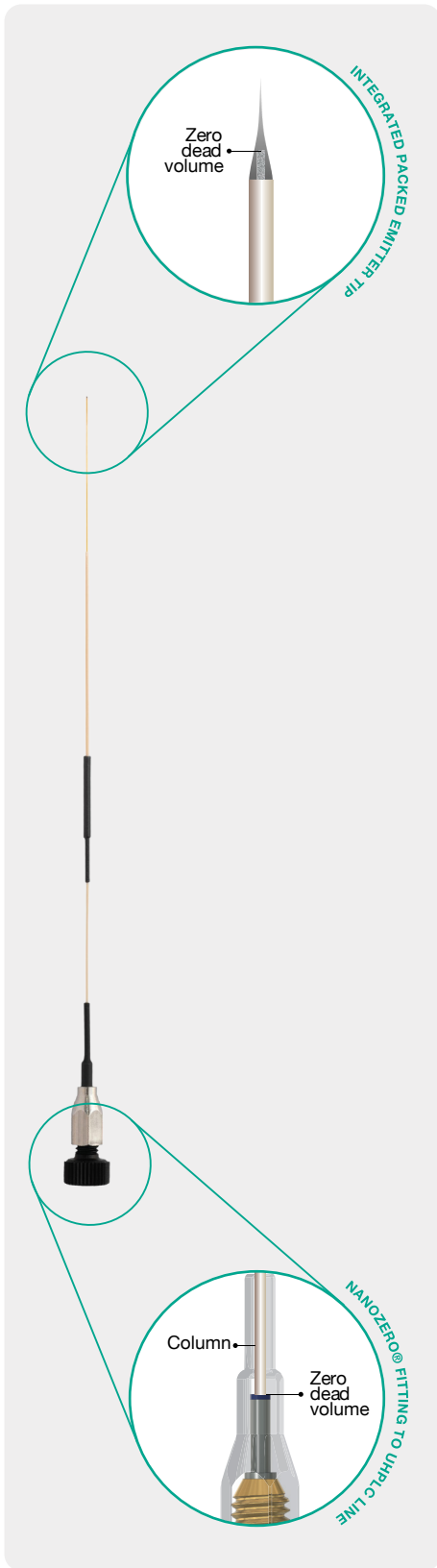
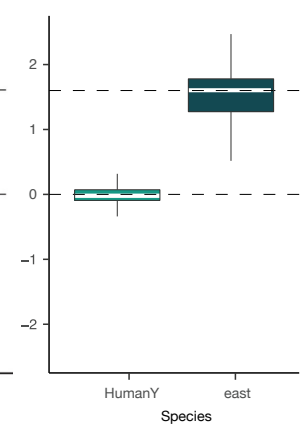


Figure 5



Further literature at:
ionopticks.com
ionopticks