

Arriving early 2023

Source and integrated heating solutions for Thermo Scientific and SCIEX mass spectrometry users.



IonOpticks TS™
New instrument interface for Thermo Scientific users.



IonOpticks SX™
New instrument interface for SCIEX users.

Proteomics Solved.

Who knew LC-MS could be so easy?



Tech Specs

Column format	Analytical column
Column type	Reversed-phase
For use with	UHPLC
Length	25 cm
Inner Diameter	75 µm
Stationary phase	C18
Pore size	120 Å
Pressure	>1700 bar
Temp. limit	60°C
Particle size	1.7 µm
pH stability	1-8

(Part No. AUR3-25075C18 / AUR3-25075C18-CSI)

ionopticks

68-70 Hanover Street
Fitzroy, Victoria 3065, Australia

To view our full product range visit
www.ionopticks.com/products

For compatibility and technical support visit
helpcentre.ionopticks.com

For general enquiries visit
ionopticks.com/get-in-touch

PRODUCT OF AUSTRALIA



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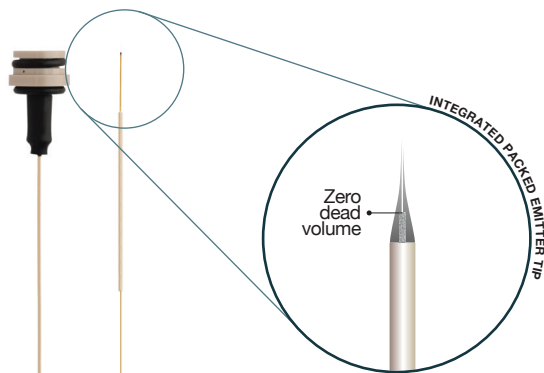
Aurora™
GENERATION 3™

Aurora™
ULTIMATE

25 cm nanoflow UHPLC packed emitter column.

Aurora™ ULTIMATE

25 cm nanoflow UHPLC packed emitter column.

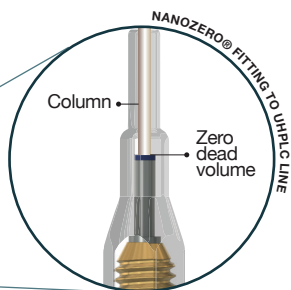


The original game-changer.

The pinnacle of chromatography performance while minimizing overall cost and stress on equipment. Want it all? The Aurora Ultimate™ continues the legacy of IonOpticks' original 25 cm UHPLC line, delivering maximum peak capacity when time is less of a determining factor, but still a consideration.

Product Benefits:

- + Extreme coverage and sensitivity without excessive time
- + Unlocks the true power of your mass spectrometer



Spectacular protein IDs. Every run. Every time.

Deep proteome coverage.

Maximise the number of identifications that you can achieve from a single shot sample analysis.

Figure 1
7000+ Unique Protein IDs

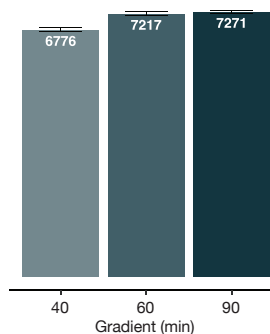


Figure 2
70,000+ Unique Peptide IDs

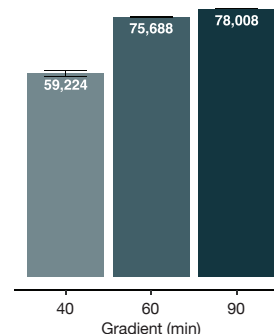
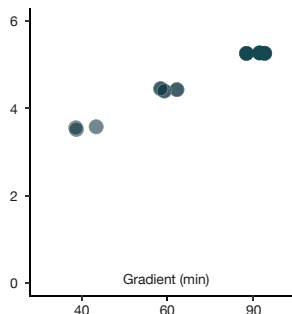


Figure 3
Peak Width FWHM (Sec)



Figures 1, 2 & 3: Identified unique proteins, peptides and average Full Width at Half Maximum (FWHM) from 200 ng HeLa Tryptic Digest injection on an Aurora Ultimate™ 25 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 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 25 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.

High quantitative accuracy

Identify large numbers of unique proteins without compromising quantitative accuracy.

Figure 4

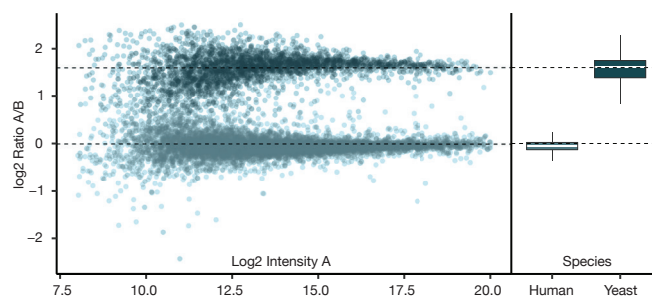
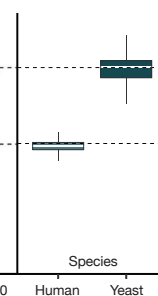


Figure 5



Aurora Generation 3

UHPLC packed emitter columns

Delivering unrivalled coverage, throughput, sensitivity and reproducibility, Generation 3 Aurora Series™ columns embody all of the strengths of previous generations, augmented by three years of intensive research, development and industry collaboration.

Designed by researchers, for researchers.

We've listened. We've collaborated.

Throughout the development of the Generation 3 Aurora Series™ we've included a range of improvements to minimise experiment disruption and increase performance.

Integrated packed emitter

True-zero pre-column dead volume

'QuickFit' plug and play technology

High-pressure fitting holds >1700 bar



Neal Gould

Tegmine Therapeutics

"Aurora columns are fantastic. Not only do they perform better than other columns on the market, but they're durable and the single nanoZero® connection makes setup easy and simplifies troubleshooting."

I use them for all my routine peptide and PTM applications."