ionopticks

PRODUCT OVERVIEW

# Aurora® Rapid™ 8x150

8 cm x 150 µm

## Maximal throughput for a wide variety of sample types.

Aurora® Rapid™ 8 cm x 150 µm packed emitter columns feature our revolutionary nanoZero® fitting, allowing for simplified plug-and-play high-throughput proteomics. With further improved spray stability and increased robustness, Generation 4 Aurora® Rapid™ 8x150 columns are capable of analysing from 50 to more than 100 samples per day while delivering class-leading peptide and protein identifications.

## Product Benefits

- Good proteome coverage
- High throughput
- High peak capacity

Ideal for:
High-throughput analysis of large sample cohorts

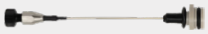
50-100
SPD

5-15 min
Gradients

## Specifications

| | |
|---|---|
| **Column format** | Analytical column |
| **Column type** | Reversed-phase |
| **For use with** | UHPLC |
| **Length** | 8 cm |
| **Inner Diameter** | 150 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** | 0.4-3 µL/min |

## Compatibility



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

HEATSYNC™

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.

4 GENERATION
Generation 4
**Aurora Series®**

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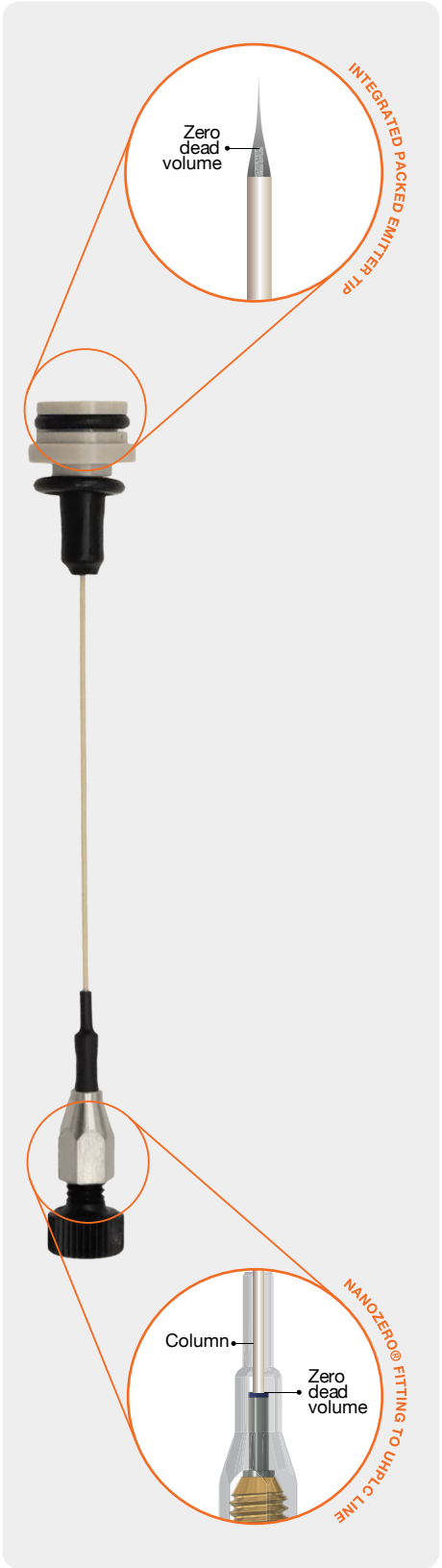



# High-throughput Analysis (60 SPD method)

**9,300+ proteins identified per run, Average 100,000 unique peptide identifications.**

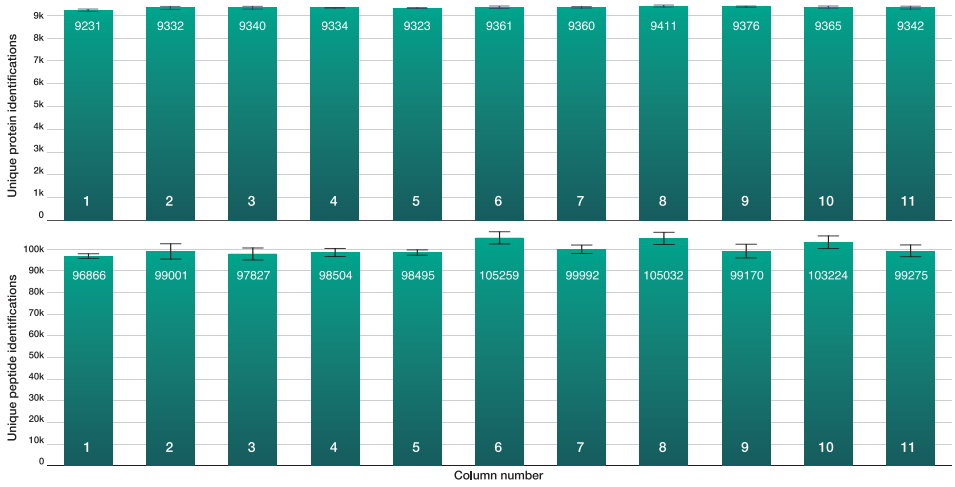
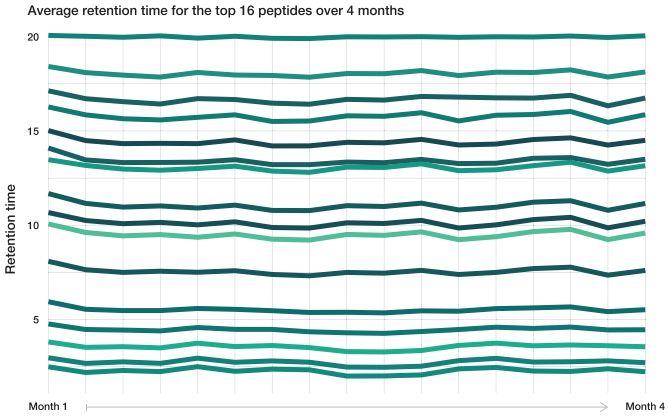


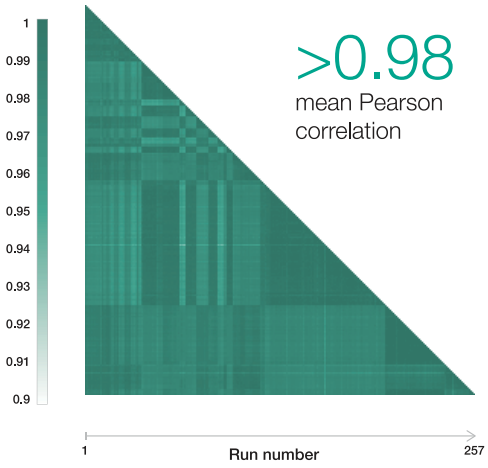

**Figure 1:** Protein identifications across different columns (A) and unique peptide identifications across different columns (B). A HeLa tryptic digest (200 ng) was separated on an Aurora® Rapid™ 8 cm x 150 µm column on a 60SPD method using Evosep One and Thermo Fisher Orbitrap Astral Mass Spectrometer.peptides from Hela Tryptic Digest injections on an Aurora® Rapid™ 8 cm x 150 µm columns. Samples were run on a Evosep One and Thermo Fisher Orbitrap Astral Mass Spectrometer.

# Consistent Peak Quality




**Narrow and stable peak widths (FWHM) across 257 QC runs**

**Figure 3:** Peak widths across all runs: average full width at half maximum (FWHM) for all identified peptides from Hela Tryptic Digest injections on an Aurora® Rapid™ 8 cm x 150 µm columns. Samples were run on a Evosep One and Thermo Fisher Orbitrap Astral Mass Spectrometer.




# Exceptional Reproducibility

+ **Low coefficient of variation (CV) across multiple columns**
+ **High Pearson correlation (mean coefficient: 0.98) between runs**

**Figure 2:** A Pearson correlation matrix of all quantified protein intensities from the 257 QC injections was calculated.

Further literature at:
**ionopticks.com**
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