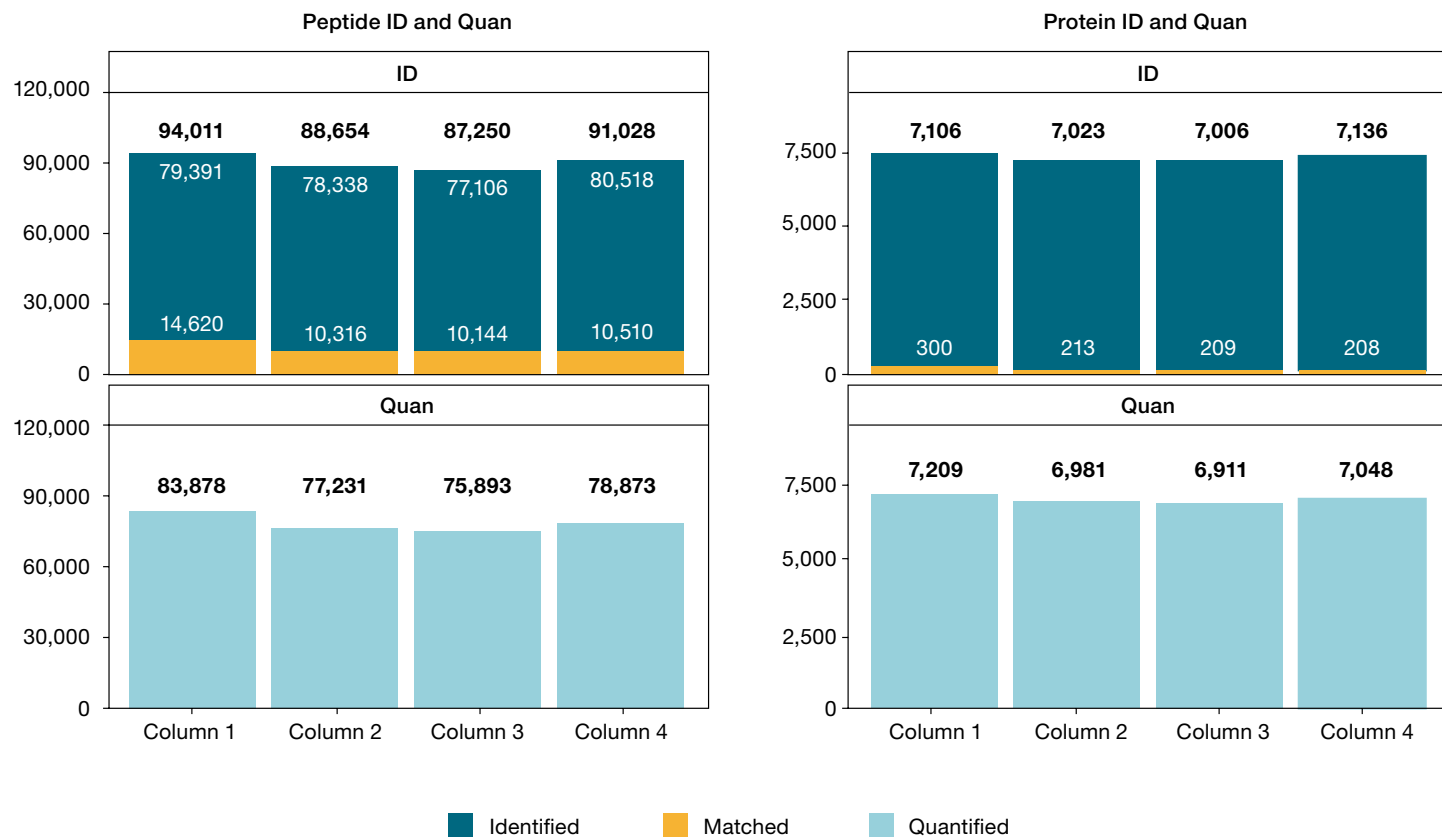# PepMap Neo Columns
Enabling brilliant performance

Is your peptide mapping analysis delivering the consistent performance you need?

Developing methods that are robust and reproducible so they can handle analytical variability can be time-consuming and frustrating. The solution? Thermo Scientific™ EASY-Spray™ and double nanoViper™ PepMap Neo™ Columns, which have been designed and manufactured for consistent column-to-column performance to remove these obstacles. They also connect seamlessly with our Thermo Scientific™ Vanquish™ Neo UHPLC System, EASY-Spray and NanoSpray Flex™ Ion Sources—eliminating the risk of leaks, failures, and poor connections.

The consistency of these columns has been reported in Thermo Scientific Technical Note 74152. Reproducible results were obtained with multiple columns over a large sample cohort. Four 75 µm I.D. × 750 mm columns were used for HeLa proteome profiling with a 2000 ng loading and a 240 min gradient. The column-to-column variation for peptide and protein identifications was below 5% and 1%, respectively. Similar results were obtained with the number of quantifiable peptides and proteins in each sample, as shown on the next page.

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Excellent column performance

Peptide ID and Quan

ID

	Column 1	Column 2	Column 3	Column 4
Total	94,011	88,654	87,250	91,028
Identified	79,391	78,338	77,106	80,518
Matched	14,620	10,316	10,144	10,510

Quan

	Column 1	Column 2	Column 3	Column 4
Quantified	83,878	77,231	75,893	78,873

Protein ID and Quan

ID

	Column 1	Column 2	Column 3	Column 4
Total	7,106	7,023	7,006	7,136
Matched	300	213	209	208

Quan

	Column 1	Column 2	Column 3	Column 4
Quantified	7,209	6,981	6,911	7,048

Legend: ■ Identified ■ Matched ■ Quantified

Reproducible identification and quantification using PepMap Neo columns (ES75750PN, 75 µm I.D. × 750 mm): HeLa peptides and proteins over four EASY-Spray PepMap Neo columns while using the Vanquish Neo UHPLC system (direct injection workflow) coupled with the Thermo Scientific™ Orbitrap™ Exploris 480 Mass Spectrometer.

Learn more at **thermofisher.com/lowflowHPLCcolumns** and **thermofisher.com/VanquishNeo**

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