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## New UHPLC columns and solvents provide advanced separation power, speed of analysis

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*Thermo Scientific Vanquish UHPLC columns and Fisher Chemical Optima UHPLC-MS solvents are designed for advanced performance on the Thermo Scientific Vanquish platform*

Researchers working with complex samples can now benefit from new UHPLC columns and solvents that are designed to provide advanced separation power, speed of analysis and throughput.

The new Thermo Scientific Vanquish UHPLC columns and Fisher Chemical Optima UHPLC-MS solvents, which are on display at Analytica 2016 (Messe München, booth 101, hall B1) in Munich, Germany, are specifically designed to complement the high performance Thermo Scientific Vanquish UHPLC systems.

"Researchers are continually being pushed to obtain higher-quality results and separations in less time," said Kevin Doolan, director, chromatography columns and consumables, Thermo Fisher. "Our new Vanquish UHPLC column portfolio allows our customers to benefit from dedicated consumables that, when used in combination with the Vanquish UHPLC system, enable our customers to achieve their targets."

The column portfolio, which consists of 16 UHPLC columns, offers a wide range of selectivity and format options for different applications such as rapid screening for drugs of abuse, pesticide analysis, metabolite and peptide analysis. New or advanced hardware and packing methods enable the new UHPLC columns to operate at higher flow rates and pressures than previous Thermo Scientific columns, producing excellent separations and fast results. Columns without these high specifications would not be able to produce the same quality of results or throughput. The new columns are also extremely robust and designed to seamlessly integrate with Vanquish system features such as intelligent sample pre-compression.

The Fisher Chemical Optima UHPLC-MS solvents are high-quality, ultra-pure and designed to address the trace analysis needs of chromatographers performing state-of-the-art UHPLC. These solvents are ideal for detecting trace amounts of analyte by MS/MS using either gradient or direct-flow analysis without baseline interference. They provide a very low mass/noise level in both positive- and negative-mode ionization, minimal metal ion content and a low UHPLC-UV response using photo diode array detection. The Optima UHPLC-MS solvents are qualified for use with UHPLC/MS instrumentation, such as the Thermo Scientific Vanquish system.

The Vanquish UHPLC systems are integrated and fully biocompatible, addressing the needs of chromatographers performing state-of-the-art UHPLC. Built around the columns, the Vanquish UHPLC systems deliver precise separations, thanks to thermostating options in the column compartment that enable high resolution. The system also delivers speed, a large dynamic range and high sensitivity.

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<http://www.thermofisher.com/>

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## Thermo Fisher Scientific Inc.



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### Company Background

Thermo Fisher Scientific (NYSE: TMO) is the world leader in serving science. The company enables its customers to make the world healthier, cleaner and safer by providing analytical instruments, equipment, reagents and consumables, software and services for research, analysis, discovery and diagnostics.

Thermo Scientific represents a broad range of high-end analytical instruments, chemistry and consumable supplies, laboratory equipment, software and services that enable integrated laboratory workflow solutions. Thermo Scientific is the new name for a trusted brand – Thermo Electron – that the world's most renowned researchers, clinicians and scientists already count on to solve their analytical challenges. The brand is strengthened by the addition of equipment, consumables and reagents acquired from Fisher Scientific.

Fisher Scientific represents a family of global product and service brands comprising a complete portfolio of laboratory equipment, chemicals, supplies and services used in healthcare, scientific research, safety and education. Fisher Scientific brings these solutions to general research customers worldwide, and through Fisher HealthCare, Fisher Safety and Fisher Science Education it delivers the specialty equipment, supplies and services that customers want, when and how they want them. In addition to these two premier brands, Thermo Fisher Scientific also markets a range of specialty products, featuring well-known industry names such as Nalgene, Nunc and Remel. Offerings include consumables such as disposable laboratory glassware, plastic-ware and environmental sample containers ranging from vials, tubes and pipettes to microscope slides and syringes. These products are primarily sold through Fisher Scientific and our valued partners worldwide.