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ASIA EDITION

Waters introduces next-generation Microflow LC Columns with MaxPeak Premier Technology

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Delivers up to 2Ã?â?? higher sensitivity than stainless steel microflow columns



US-based Waters Corporation has launched 1 mm I.D. liquid chromatography (LC) columns with Waters' MaxPeak™ Premier Technology for its ACQUITY™, BioResolve™, and GTxResolve™ Column brands. Significantly improving sensitivity while minimising solvent and sample waste, the new microflow columns deliver high-quality results across bioanalysis, pharmaceutical discovery and development, and metabolomics, proteomics and lipidomics – all areas where both sample availability and time are limited.

The new microflow LC columns apply Waters' MaxPeak High Performance Surface (HPS) Technology to a 1 mm I.D. format. This significant advancement minimizes nonspecific adsorption (NSA) and improves recovery for small molecules, peptides, and oligonucleotides. MaxPeak HPS Technology is of particular benefit for those investigating molecules with challenging analyte recovery, such as phosphorylated peptides, by removing analytical barriers and speeding workflows.

Using these columns, scientists can consistently expect sharper peaks, enhanced peak capacity, and reduced peak tailing even at low flow rates, along with highly reproducible performance from the very first injection. These benefits significantly reduce the time and variability associated with column passivation in traditional stainless steel column designs. For customers transitioning from 2.1 mm I.D. analytical-scale LC columns to microflow formats, the new 1 mm I.D. columns deliver equivalent or improved sensitivity, while using only one-quarter of the solvent and sample required for analytical flow, helping labs meet their environmental goals while improving analytical performance.