

Waters Redefines Laboratory Science with New ACQUITY PREMIER Liquid Chromatography Solution

2/10/2021

Company's Most Significant Advance in Chromatography Since UPLC Aims to Accelerate Scientific Research and Development

News Summary:

- Mitigates loss of metal-sensitive analytes to yield higher quality data with less time and effort
- Novel MaxPeak High Performance Surface technology eliminates the need for system and column passivation and improves analytical sensitivity and assay-to-assay reproducibility
- ACQUITY PREMIER system and column chemistries work together to provide enhanced analytical data quality and greater confidence in separation results

MILFORD, Mass.--(BUSINESS WIRE)-- Waters Corporation (NYSE:WAT) today introduced the Waters™ ACQUITY™ PREMIER Solution, the next generation in liquid chromatographs featuring Waters' breakthrough MaxPeak™ High Performance Surface (HPS) technology. The solution leverages HPS to vastly improve analytical data quality and eliminate the need for time-consuming and costly passivation.

This press release features multimedia. View the full release here:

<https://www.businesswire.com/news/home/20210210005204/en/>

The Waters ACQUITY PREMIER Solution combines the power of the ACQUITY PREMIER System with ACQUITY PREMIER Columns to improve detection sensitivity and assay-to-assay reproducibility for chromatographic separations of metal-sensitive analytes like organic acids, organophosphates, oligonucleotides, phosphopeptides, acidic glycans and

ACQUITY PREMIER is a universal liquid chromatograph (LC) solution that combines the ACQUITY PREMIER System with ACQUITY PREMIER Columns with MaxPeak HPS technology. It is designed to alleviate the problem of analyte/metal surface interactions when analyzing organic acids, organophosphates, oligonucleotides, phosphopeptides,

phospholipids. (Photo: Business Wire)

acidic glycans and phospholipids by reversed phase and hydrophilic interaction chromatography. For these

analyses, the new ACQUITY PREMIER solution cuts the time from sample to results, improves analyte recovery and assay-to-assay reproducibility, to give separation scientists greater assurance in the integrity of their qualitative and quantitative analytical results.

“The ACQUITY PREMIER Solution represents our biggest innovation in separation science since UPLC,” said Ian King, Senior Vice President, Global Products, Waters Corporation. “Chromatography has an immeasurable impact on the development of novel therapeutics and treatments for innumerable diseases. The result of decades of separations science know-how along with the combined efforts of our materials scientists, chemists and engineers, ACQUITY PREMIER addresses a long-standing problem that has held back scientific progress long enough. We firmly believe it will redefine the value that separations science brings to scientific achievement.”

MaxPeak High Performance Surface Technology

MaxPeak HPS technology is a hybrid organic/inorganic surface technology that forms a barrier between the sample and the metal surfaces of both the system and column. By mitigating, or eliminating altogether, non-specific adsorption, the ACQUITY PREMIER Solution offers many benefits, among them:

- increased analyte recovery with 10-100X improvement in detection sensitivity for low-level phosphorylated and carboxylated analytes reducing the risk of unseen analytes going undetected
- sharper peak shapes and greater peak capacity for more accurate analyte identification and data interpretation
- greater reproducibility for separations prone to adsorptive losses meaning less re-work or troubleshooting, and more confidence in results
- no more system passivation to waste valuable sample material or tie up instrument cycles
- eases the transfer of methods from site-to-site and from company-to-company
- offers UPLC performance for the analysis of both metal-sensitive and non-metal-sensitive analytes making it a truly universal liquid chromatography solution

“This approach solves a real problem with the analysis of some particularly troublesome analytes,” said noted expert and consultant Prof. Ian Wilson, Faculty of Medicine, Dept. of Metabolism, Digestion and Reproduction, Imperial College London. “The improvements in peak shape and signal-to-noise ratio at low concentrations of analytes like phosphorylated drugs and lipids are obvious at a glance and very impressive, and it will make the lives of many analysts much easier.”

The ACQUITY PREMIER System and ACQUITY PREMIER columns are now available worldwide from Waters.

Additional Resources

- Read our white paper: [Low Adsorption UPLC Systems Based on MaxPeak High Performance Surfaces: The ACQUITY PREMIER Solution](#)
- Learn more about the [ACQUITY PREMIER Solution](#)
- Join our February 10 [ACQUITY PREMIER launch event](#) or watch on-demand
- Learn more about the ACQUITY PREMIER Solution for [oligonucleotides analysis](#)
- Connect with Waters via [LinkedIn](#), [Twitter](#), and [Facebook](#)

About Waters Corporation (www.waters.com)

Waters Corporation (NYSE:WAT), the world's leading specialty measurement company, has pioneered chromatography, mass spectrometry, and thermal analysis innovations serving the life, materials, and food sciences for more than 60 years. With more than 7,000 employees worldwide, Waters operates directly in 35 countries, including 15 manufacturing facilities, and with products available in more than 100 countries.

Waters, ACQUITY and MaxPeak are trademarks of Waters Corporation.

i Typical results based on Waters lab tests of multiple compounds using both standard UPLC systems and columns compared with ACQUITY PREMIER system and columns featuring MaxPeak HPS. Detection sensitivity may vary depending on the analytes being measured.

View source version on [businesswire.com](https://www.businesswire.com/news/home/20210210005204/en/): <https://www.businesswire.com/news/home/20210210005204/en/>

Brian J. Murphy
PR Manager, Corporate Communications
Waters Corporation
brian_j_murphy@waters.com
+1 508-482-2614

Source: Waters Corporation