

Thermo Fisher improves proteomics research productivity

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AccelerOme Automated Sample Preparation Platform brings greater reproducibility and standardization to LC-MS workflows



Thermo Fisher Scientific has introduced AccelerOme Automated Sample Preparation Platform that eliminates the need for labour-intensive, manual sample preparation for LC-MS analysis, including the associated method development and reagent sourcing.

This allows users to focus on higher-value tasks. Automated sample preparation also overcomes the challenge of maintaining reproducibility with manual methodologies, and the new platform's pre-built validated methods and kit format reagents reduce further any risk of user error.

The resulting peptide samples are consistently high-quality. A novel built-in UV measurement of final peptide concentration before LC-MS analysis allows the standardisation of sample peptide input for LC-MS analysis, another metric that adds to the quality, reliability and robustness of the final experimental result.

The platform supports the use of peptide standards to monitor LC-MS system performance, enabling instrument health monitoring during acquisition or through post-acquisition data analysis.

The AccelerOme sample preparation platform, designed with an experimental design tool, combines reliable and reproducible hardware with easy-to-use software and commercially available reagent kits for both label-free and TMT multiplexing applications.