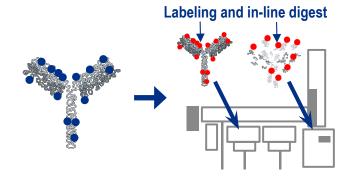
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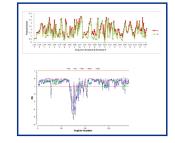


The Orbitrap Based Workflow Solution

The Thermo Scientific[™] HDX Workflow comprises a H/D-X PAL[™] Hydrogen Deuterium Exchange sampler system (LEAP Technologies) and Thermo Scientific[™] UltiMate[™] 3000 UHPLC system, coupled online with the Thermo Scientific[™] Orbitrap[™] Platform of mass spectrometers. The system is fully automated and controlled by Chronos Software[™] (LEAP Technologies) fully integrated with Thermo Scientific[™] Xcalibur[™] software.

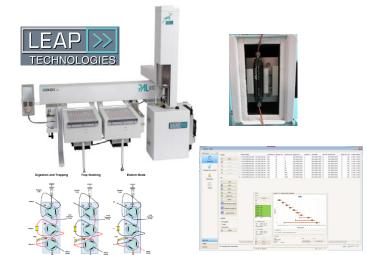






Any Orbitrap-based system can be coupled to the H/D-X PAL/LC front end





Sample handling

- H/D-X PAL autosampler with single head with syringe exchange
- Standalone pepsin column chamber to enhance peptide coverage
- Closed chamber for stable temperatures for all vials
- Flexible 3 valve configuration in the cooling chamber allowing efficient sample cleanup
- Chronos software with full editing capabilities for method customization and full integration of Xcalibur software.

LC pump

- Thermo Scientific[™] Dionex[™] UltiMate[™] NCS-3500RS Binary Rapid Separation micro flow pump
- Ternary loading pump with flexible flow rate and solvent selection
- Fully editable LC conditions throughout the experiment

Mass spectrometer

- High resolution and accurate mass necessary for specificity with short chromatographic runs required to prevent back exchange and to allow precise measurement of deuterium incorporation.
- High quality Orbitrap DDA spectra in conjunction with Thermo Scientific[™] BioPharma Finder[™] Software ensures confident and rapid identification of all peptides
- Ultimate precision with ETD fragmentation to allow localization of deuterium exchange to the amino acid level
- The HDX-MS platform can be applied to run HDX and any other application



Data analysis

- BioPharma Finder: one software solution for peptide identification, PTM analysis and HDX data analysis.
- HDExaminer: a complete software solution for top-down and bottom-up HDX data analysis.

Find out more at **thermofisher.com/HDX**

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