Agilent MassHunter BioConfirm 12.1

Key Uses

• Analysis of oligonucleotides including confirming the full-length product (FLP) and its impurities as well as confirmation of the oligonucleotide sequence.

• Confirming the molecular weight of intact proteins such as monoclonal antibodies (mAbs).

• Calculating the drug-to-antibody ratio (DAR) for antibody-drug conjugates.

• Measuring the sequence coverage of protein digests and location of post-translational modifications (PTMs).

• Profiling released glycans.

Key Features

• Multiple key biopharma workflows in the same software.

• Automation using MassHunter Acquisition or MassHunter Walkup.

• Technical controls to securely process, report and store data to meet compliance guidelines.

Overview

MassHunter BioConfirm 12.1 software provides biopharma customers the confident answers they demand. With high-resolution mass spectrometry data, it extracts information to assess oligonucleotide impurities, confirm intact protein molecular weights, peptide sequence coverage and location of post-translational modifications (PTMs), and the identification of released glycans.

The modernized new interface provides the same look and feel as other MassHunter software and an improved user experience for functionality and layout selection. The newest features enable users to interrogate peptide mapping results with color coded scoring and an easy-to-read fragment confirmation ladder.

MassHunter BioConfirm 12.1 speeds up data analysis, supports regulatory compliance, and produces answers that users can trust.
Multiple Key Biopharma Workflows

Characterization of biomolecules using high resolution mass spectrometry data can be complex and time-consuming. For example, manually confirming oligonucleotide sequences using a spreadsheet can take days of tedious inspection of MS/MS fragment spectra. MassHunter BioConfirm allows the user to enter the target sequence, select search parameters, and run the workflow. The views are available for inspection of chromatograms, spectra, and visualizations such as a sequence coverage map and fragment confirmation ladder. Relative quantitative results can be annotated via tables or histograms. The common look-and-feel across the workflows minimizes training time for new users and the workflow-specific layout buttons improve usability for data review.

Automation: MassHunter Acquisition or WalkUp

MassHunter BioConfirm analysis can be automated with the ability to set up a worklist in MassHunter Acquisition and run an analysis in BioConfirm immediately after data acquisition while the mass spec is analyzing the next sample. MassHunter WalkUp allows users to fill in three simple screens and automate the entire workflow including BioConfirm analysis and report generation, giving all users access to the analysis capabilities of an expert LC/MS user.

Technical Controls to Meet Compliance Guidelines

Biopharma GxP labs must meet strict controls with data integrity features, audit trails, roles and permissions, checksums, access controls, user timeouts, and electronic signatures to help meet regulatory compliance guidelines. Biopharma labs in discovery or early development need analysis software with minimal controls. MassHunter BioConfirm 12.1 can be configured to be used in either type of lab with the same user interfaces across all workflows.

Key Benefits of the Agilent MassHunter BioConfirm 12.1 to Lab Operators and Managers

**Higher Productivity Through Automation and Ease-of-Use**

MassHunter BioConfirm 12.1 automates many key biopharma workflows and reduces the time required to process data, eliminating many manual steps. The workflows are structured in a similar manner so training from one easily transfers to the next. The unification of user interface to MassHunter software suites facilitate the familiarization for user experience.

**StreamlinedAudit Process**

MassHunter BioConfirm Networked Workstation includes many technical controls such as audit trail that work in the background and enforce policies. It enables single point access to data from multiple sources which allows for auditors to inspect records with zero impact on the lab’s productivity.

For more information visit [www.agilent.com](http://www.agilent.com)

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