Enabling routine characterization of proteins
Agilent MassHunter BioConfirm software
Bioconfirm—a key component of your major biopharma workflows

**Intact protein analysis**

BioConfirm will rapidly deconvolute your intact protein data to determine molecular weights and confirm PTMs. PTMs like glycoforms can be labeled on the mass spectrum and inspected by their relative quantitative amounts. Cysteine disulfide bonds can either be individually specified in the protein sequence or just the total number listed—speeding up your setup time!
Figure 1. Glycoforms and other PTMs are labeled directly on the protein’s deconvoluted spectrum.
Peptide mapping

With MassHunter BioConfirm you can perform sequence confirmation with confidence. A new peptide mapping algorithm uses MS/MS data to narrow down the list of possible peptides—saving you time from manual inspection. Results are displayed in the new Sequence Coverage Map that allows you to review multiple samples (e.g. different digest enzymes) at the same time. Fast disulfide bond mapping can be used to untangle the scrambling of disulfide bonds in a monoclonal antibody.

![Sequence Coverage Map](image)

**Figure 2.** The new Sequence Coverage Map makes review of multiple samples easy and clearly denotes MS/MS and MS-only evidence of the sequence.
Glycans are a challenging PTM to characterize given the diversity in their composition and the need to chemically tag them to get adequate analytical sensitivity. BioConfirm has a new Released Glycans workflow that allows for easy setup of the analysis and accommodates many commercial and custom tags. A newly curated database of glycans is provided which can be easily extended with custom glycans using MassHunter tools.

Figure 3. The released glycans results include spectra annotated with the glycan structure and theoretical isotope distribution.
One click ADC DAR calculation

The drug-to-antibody ratio (DAR) is a critical quality attribute of antibody drug conjugates (ADCs) that must be carefully monitored during the development process. MassHunter DAR Calculator has been created to rapidly calculate DAR values for both intact and reduced ADCs with minimal user input.

- Automatic calculation of DAR value
- Intuitive peak integration
- Built-in support for intact and reduced ADCs
- Dedicated ADC DAR report in PDF and MS Word

Walkup software

The MassHunter Walkup environment provides sample submitters access to expert LC/MS capabilities without requiring them to be LC/MS experts. Biologists and Protein Scientists can automatically receive an annotated report with results for intact protein analysis, PTMs, peptide mapping and DAR values while having complete control of the sample’s preparation, treatment and storage prior to analysis.
Reports easily done your way

The new PDF Report Builder enables you to create reports in your preferred layout. Templates for all workflows are provided and can be modified using a new interface to highlight the information that is important to you and your laboratory.

- Add your company logo
- Place tables, chromatograms, and spectra exactly where you want them
- Fast creation of reports in PDF format

Speeding up your biopharmaceutical analyses

MassHunter BioConfirm is an integral part of Agilent’s biopharma workflows. With support for intact protein analysis including glycoforms, peptide mapping using high confidence MS/MS evidence, and the new released glycan capabilities, BioConfirm makes characterization of protein therapeutics fast and routine.
Agilent CrossLab services: maximize uptime with end-to-end support

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