Take a Giant Step Forward in Biomolecule Characterization

Agilent MassHunter BioConfirm software
Understanding the attributes of a biologic drug, and the processes used to create it, is critical. Agilent MassHunter BioConfirm software is a biopharmaceutical software that enables routine characterization of complex biomolecules through easy-to-use workflows for oligonucleotide analysis, intact protein analysis, peptide mapping, and released glycan profiling.

Confidently Analyze for Major Critical Quality Attributes (CQAs)

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Agilent MassHunter BioConfirm software, part of the complete Agilent biopharma workflow

**Automate sample preparation**
*AssayMAP Bravo*

**Separate**
*1290 Infinity II LC*

**Analyze and report**
*MassHunter BioConfirm software*

**Detect**
*6545XT AdvanceBio LC/Q-TOF*
Oligonucleotide Characterization: Elevate Your Expectations for Speed and Accuracy

BioConfirm software enables you to rapidly set up two workflows, Target Plus Impurities, and sequence confirmation for oligonucleotide confirmation.

Full layouts have been added for oligonucleotides to rapidly and easily review results in chromatograms, spectra, and tables.

MS spectra
MS spectra show the oligonucleotide biomolecule annotated at each charge state.

Chemical Data Dictionary
The Chemical Data Dictionary has been enhanced to enable defining oligonucleotide building blocks, linkers, and modifications the way you want them.
Target Plus Impurities (TPI)
The TPI uses oligonucleotide MS data to identify the full-length product (FLP) as well as any potential impurities.

Sequence Manager
The Sequence Manager can take sequence input based on your preferred definitions for building blocks, linkers, and modifications.

Perform MS/MS-based sequence confirmation in minutes
Sequence confirmation typically takes up to one week manually. But with BioConfirm software, you can confidently perform MS/MS-based sequence confirmation in minutes with minimal manual steps.

The selected biomolecule for position a7-B is represented on the sequence ladder as an open circle.
BioConfirm rapidly deconvolutes your intact protein mass spectrometry data to determine molecular weights and confirm post-translational modifications (PTMs). PTMs like glycoforms can be labeled on the mass spectrum and inspected by their relative quantitative amounts using tables or histogram plots. Also, cysteine disulfide bonds can be either individually specified in the protein sequence or listed in total, speeding up your setup time.

Intact protein analysis in MassHunter BioConfirm also works well with the low-vacuum environment of the Agilent 6545XT AdvanceBio LC/Q-TOF mass spectrometer. It allows more proteins to get through for greater sensitivity.

**Predicted modifications**

Relative quantitative results of glycoforms are displayed as histogram plots, allowing you to monitor a process.
Peptide Mapping:
Be Sure of Your Sequences

The MassHunter BioConfirm peptide mapping algorithm uses MS/MS data to narrow the list of possible peptides—saving you manual inspection time. Results are displayed in a Sequence Coverage Map that allows you to review multiple samples (such as different digest enzymes) at the same time. Histogram plots let you compare multiple PTMs or conditions. In addition, fast disulfide bond mapping can be used to untangle the scrambling of disulfide bonds in a monoclonal antibody.

Sequence Coverage Map
The Sequence Coverage Map makes reviewing multiple samples easy and clearly denotes MS/MS and MS-only evidence of the sequence.

Relative quant results
Perform relative quantitation of modified and unmodified peptides.
Glycans are a challenging PTM to characterize given the diversity in their composition and the need for chemical tagging to ensure analytical sensitivity. BioConfirm released glycans workflow makes setup easy and accommodates many commercial and custom tags. You can also take advantage of a curated glycan database, which can easily be extended with custom glycans using MassHunter software tools. Learn more about N-glycan analysis at [www.agilent.com/chem/glycan-sampleprep](http://www.agilent.com/chem/glycan-sampleprep).

The released glycans results include spectra annotated with the glycan structure and theoretical isotope distribution. The Agilent Find-by-Formula algorithm takes advantage of the glycan tendency to ionize with multiple adducts, resulting in finding species, such as M+H+Na, and giving greater specificity.
Reports done easily—your way

The PDF report builder makes it simple to create reports in your preferred layout. Templates for all workflows are provided and can be modified to highlight the information that is important to you.

Create PDF reports quickly

Add your company logo

Place tables, chromatograms, and spectra exactly where you want them
Compliance-ready features keep you in control

With advanced security capabilities and built-in technical controls, the BioConfirm Networked Workstation minimizes security risks while helping to preserve data integrity.

Control Panel

The Control Panel allows you to set up roles and permissions to comply with regulatory guidance, such as 21 CFR Part 11 and Annex 11.

Audit trails

Audit trails make reviewing easy by highlighting entries that require review. Tamper detection is automatically included using checksums.
MassHunter BioConfirm software is part of the Agilent biopharma workflow, spanning from sample preparation to separation and detection through data analysis and reporting. This chart will help you find the version of BioConfirm biopharmaceutical software for LC/Q-TOF that is best for your lab.

Which version of BioConfirm software should I choose?

MassHunter BioConfirm software is part of the Agilent biopharma workflow, spanning from sample preparation to separation and detection through data analysis and reporting. This chart will help you find the version of BioConfirm biopharmaceutical software for LC/Q-TOF that is best for your lab.

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<th>Workstation</th>
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<td>Server-based content management</td>
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<td>Single point access to data from multiple sources</td>
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○ = Optional feature
Supporting your success

CrossLab is an Agilent capability that integrates services and consumables to support workflow success, improve productivity, and enhance operational efficiency. Through CrossLab, Agilent strives to provide insight in every interaction to help you optimize the return you get on your instrument investment and achieve your business goals. Agilent CrossLab supports Agilent instruments and select non-Agilent instruments as well. We also provide consultative support for workflow enablement, lab analytics, regulatory compliance, inventory management, and asset management, including relocation services.

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