

Precision Protein Characterization, Powered by Orbitrap™ Expertise

From routine protein analysis to your most demanding characterization challenges in biotherapeutic drug discovery and development, we deliver high-performance Orbitrap™ Fourier transform mass spectrometry-based services, backed by technical expertise and personalized scientific support.

Our analytical services combine state-of-the-art mass spectrometry approaches with proprietary methods, software, and hardware tools designed to enhance Orbitrap platform performance. The result is superior data quality, deeper structural insights, and the confidence to advance your program with clarity.

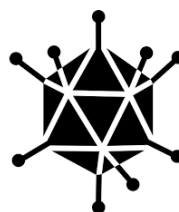
Contract Analytical Services in Lausanne, Switzerland, since 2014



mAb-Antibodies



AXC-Antibody Conjugates



AAV - Viral Capsids



Peptides /Proteins

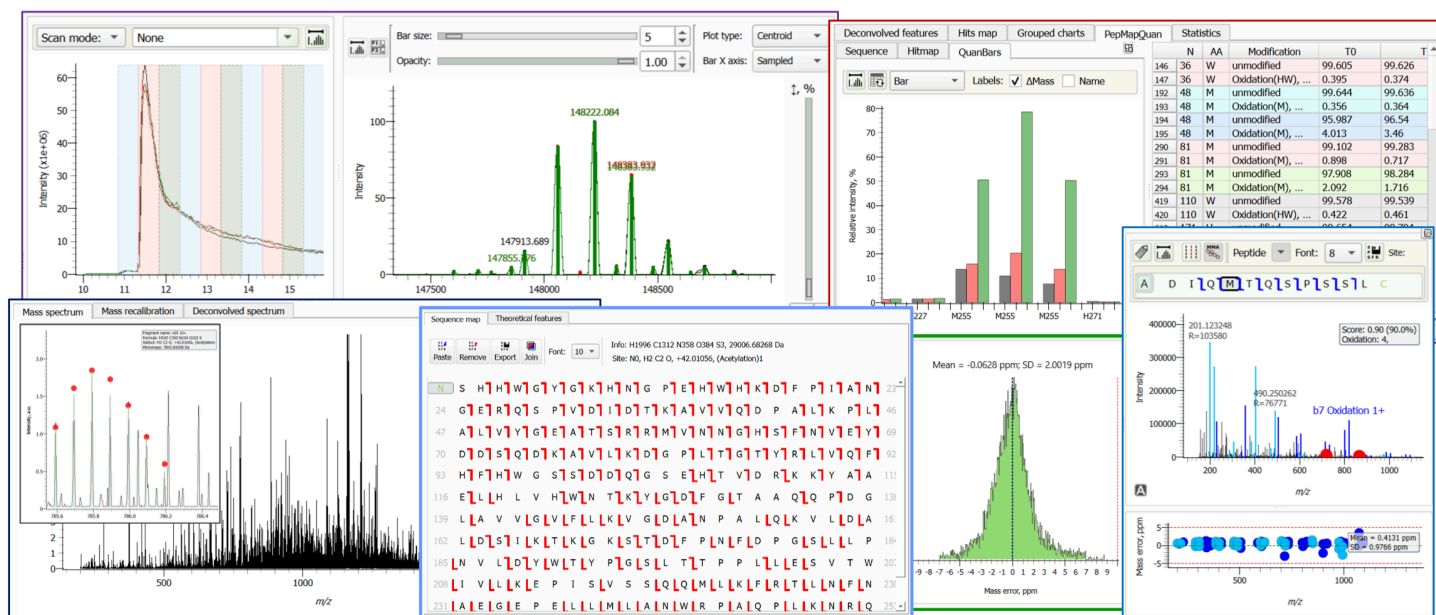
- Access to multiple **Orbitrap™**-based LC-MS platforms in Switzerland tailored to your sample size, analytical goals, and molecular complexity
- Enhanced Orbitrap™ data acquisition and processing, including unreduced workflows using full-profile mass spectra and time-domain ion signals (transients)
- Advanced data processing and analysis workflows designed to maximize sensitivity, resolution, and confidence, including spectral averaging across technical replicates
- Industry-standard and proprietary MS solutions for protein characterization, including **mAbs** & multi-specific antibodies, **ADCs/AOCs**, and conjugated **AAVs**:
 - Untargeted proteomics for protein sequencing and PTMs analysis (profiling)
 - Targeted proteomics for site-specific PTMs analysis & relative quantitation, including **N- & O-glycosylation analysis** using ETD / HCD combination
 - Intact mass, middle-up, middle-/top-down, and bottom-up MS strategies for comprehensive characterization of protein complexes (mAbs) and their subunits
- Orbitrap™-based Charge Detection Mass Spectrometry (**CDMS**) for high-mass and heterogeneous assemblies, including intact ligand-free and conjugated AAV capsids*
- Complementary analytical and data services, including released glycan analysis, custom data interpretation, and advanced MS data analysis support

* **Ultra-long transients enhance sensitivity and resolution in Orbitrap-based single-ion mass spectrometry**, Heck et al., Nature Methods (2024) 21, 619–622

Peak-by-Peak BioPharma Software: from CRO for CRO

Peak-by-Peak BioPharma is a modular software suite designed to transform what is achievable from MS data quality, processing, and reporting. Developed in-house in response to the demands of our own CRO services, these workflows are purpose-built for biopharma applications, enabling efficient processing of MS data and generation of customer-ready results.

In our own workflows, Peak-by-Peak BioPharma has significantly reduced data analysis and reporting timelines by automating many routine MS data analysis procedures while preserving the option for manual validation. We are now making these tools available to help you accelerate your own MS data analysis and reporting with greater speed, consistency, and confidence.



Enhanced Output with Unreduced Data Acquisition and Processing

When needed, we operate Orbitrap instruments with access to the true raw data, not only the processed RAW spectral output. This enables a higher level of data quality, sensitivity, and analytical depth than standard instrument configurations can typically provide. By preserving and analyzing this richer data stream, we can unlock deeper insights from complex biopharma samples.



See: High-Performance Data Acquisition for FTMS, Kozhinov et al., *Chimia* (2025), 79, 77

This capability is powered by our proprietary **FTMS Booster X2T** add-on to the Orbitraps, which captures time-domain ion signals, or transients, in parallel with the instrument's built-in electronics & RAW mass spectra acquisition.

To learn more about our software tools or to get your free evaluation license, you are most welcome to visit <https://spectroswiss.ch/software/> and to contact us at info@spectroswiss.ch