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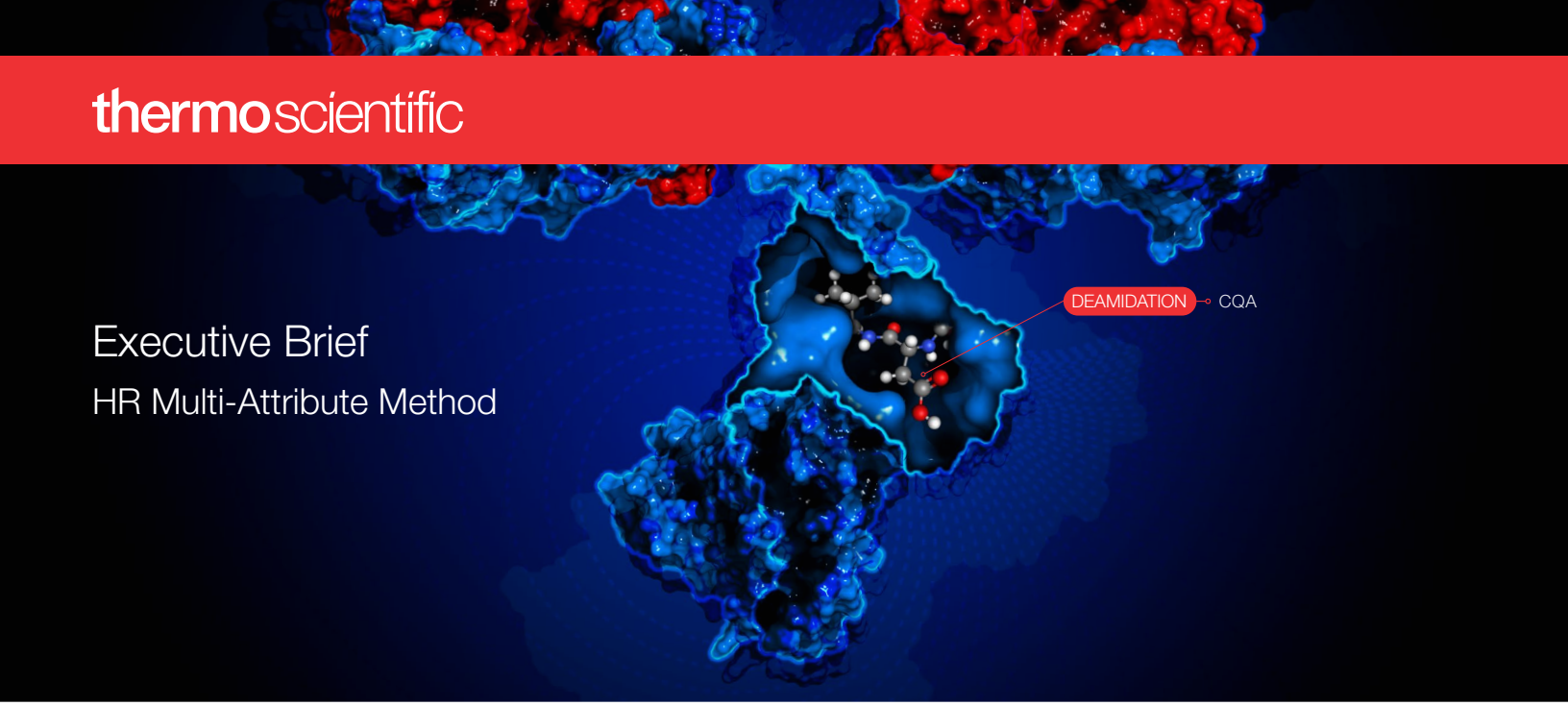

Executive Brief

HR Multi-Attribute Method

Thermo Scientific HR Multi-Attribute Method

Confidently characterize and monitor without compromise

Complete workflow package for identification and monitoring of therapeutic protein quality attributes includes:

- Verified system suitability test to ensure LC and MS performance
- Verified chromatography reagents and columns
- Thermo Scientific™ Vanquish™ Horizon UHPLC for robust and reproducible high-resolution peptide separation
- Thermo Scientific™ Q Exactive™ Plus Mass Spectrometer – for high-resolution accurate mass data for confident peptide identification
- Thermo Scientific™ BioPharma Finder™ Software – for product quality attribute assessment and quantitation
- Compliance-ready data acquisition, quality attribute quantitation, new peak detection, and reporting within Thermo Scientific™ Chromeleon™ Chromatography Data System (CDS)
- MAM Operator Training and full service support
- Seamless method transfer from research to routine laboratories

Resolution Matters from Research to Routine

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Simplify your Biopharma QC analysis with a single verified workflow

Reason	Why
Return on investment	• Characterize your biopharmaceutical candidate molecules in less time with a single analytical workflow: Fewer assays to use, fewer standard operating procedures (SOPs) and instruments to maintain; Fewer types of data to interpret; Simplify to save time & money. • Powerful workflow from research to routine – adaptable for changing needs and requirements with consistent data quality and results. • Standardized workflow provides reliability and comparability across multiple labs and multiple sites.
System flexibility	• Data processing to fit your requirements through all phases of development and manufacturing: Discovery and early development laboratories operating outside the compliance requirements can build on BioPharma Finder Software and take it further to compliance-ready CQA monitoring with seamless transfer to Chromeleon CDS. • Use the same high-resolution MS platform from discovery for advanced characterization, right the way along your pipeline to late development and QC for monitoring of CQAs.
Proven, trusted	• The Thermo Scientific™ HR Multi-Attribute Method has been verified for reliable targeted peptide quantitation needs. • The Thermo Scientific™ Q Exactive™ Hybrid Quadrupole-Orbitrap™ Mass Spectrometer continues to be a proven workhorse and acknowledged as one of the market-leading Orbitrap mass spectrometers to satisfy biopharmaceutical characterization needs. • A comprehensive workflow with a verified system suitability standard to assure your system is tested to deliver reliable data for MAM. • Fully supported by the Thermo Fisher Scientific global expert network from installation through training to service.
Operational simplicity	• Robust and easy set-up for discovery peptide mapping acquisition and verified workflow for targeted peptide quantitation. • Easy to learn data visualization and interpretation tools for use in discovery and routine analytical labs. • Automated quantitation and reporting. • eWorkflow™ procedures provide an automated process simplifying sequence creation and associated methods such as instrument method, processing method, view settings and the report template.
System performance	• Excellent chromatographic resolution for complex peptide separation challenges with the robust and reproducible Vanquish Horizon UHPLC System. • Unrivaled mass accuracy, mass stability and resolution for reliable peptide identification and quantitation. • Don't compromise on information quality, detect product attributes with high resolution accurate mass and any impurities compared to a reference sample with automated peak detection.
Regulatory compliance	• Operated using Chromeleon CDS for data acquisition, full cGMP data integrity and 21 CFR 11 compliance. • Compliance-ready software platform controlling your high-resolution LC-MS instrument and providing data acquisition, processing and reporting – minimizing method transfer obstacles as your drug moves down the development pipeline.

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

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