Bioanalysis Applications from Waters: A Focus on Protein and Peptide Biomolecules

Biomolecules, such as proteins and peptides, represent a growing number of pharmaceutical drug entities. These biopharmaceuticals are often more specific than small molecules, since they typically replace or augment an endogenous molecule known to change a disease or physiological state. Reliable, robust, sensitive, and accurate bioanalytical methods need to be developed for biopharmaceuticals, as well as for small molecules, with special attention paid to:

- Solubility and adsorption considerations during method development
- Selective sample prep to minimize matrix effects and reduce variability associated with incurred samples
- Requirements for biomolecules vs. small molecules due to the sensitivity need at high mass distribution over multiple charge states

See how Waters Bioanalysis Solutions can greatly simplify bioanalytical studies for large molecule therapeutics using a platform-based approach to methods development — from optimal SPE recovery and concentration to MRM-based LC/MS analysis — to reduce development timelines and time to market.

Download our latest application notes, access on-demand webcasts, journal citations and more: www.waters.com/biomols

Access free materials on bioanalysis of biologics using Waters Bioanalysis Solutions. Here's just a few of our scientific publications:

- Bioanalysis of Therapeutic and Endogenous Peptides: Understanding and Overcoming the Challenges of Working with Large Molecules
- A Flexible SPE/LC/MS/MS Platform for the Simultaneous Quantitation of Multiple Amyloid Peptides in Cerebrospinal Fluid
- High Sensitivity Quantitative Analysis of a Therapeutic Peptide in Plasma Using UPLC Xevo® TQ-S
- Fast and Effective Optimization of MRM Methods for LC/MS/MS Analysis of Peptides
- Addressing the Issues of Matrix Resolution and Measurement in Bioanalytical Assays
- A High-Sensitivity UPLC/MS/MS Method for the Quantification of Desmopressin in Rat Plasma
- Bioanalytical Method Development Strategy for Therapeutic Peptides

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