



Handbook of LC-MS Bioanalysis: Best Practices, Experimental Protocols, and Regulations

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Handbook of LC-MS Bioanalysis: Best Practices, Experimental Protocols, and Regulations From Wiley

Consolidates the information LC-MS bioanalytical scientists need to analyze small molecules and macromolecules

The field of bioanalysis has advanced rapidly, propelled by new approaches for developing bioanalytical methods, new liquid chromatographic (LC) techniques, and new mass spectrometric (MS) instruments. Moreover, there are a host of guidelines and regulations designed to ensure the quality of bioanalytical results.

Presenting the best practices, experimental protocols, and the latest understanding of regulations, this book offers a comprehensive review of LC-MS bioanalysis of small molecules and macromolecules. It not only addresses the needs of bioanalytical scientists working on routine projects, but also explores advanced and emerging technologies such as high-resolution mass spectrometry and dried blood spot microsampling.

Handbook of LC-MS Bioanalysis features contributions from an international team of leading bioanalytical scientists. Their contributions reflect a review of the latest findings, practices, and regulations as well as their own firsthand analytical laboratory experience. The book thoroughly examines:

- Fundamentals of LC-MS bioanalysis in drug discovery, drug development, and therapeutic drug monitoring
- The current understanding of regulations governing LC-MS bioanalysis
- Best practices and detailed technical instructions for LC-MS bioanalysis method development, validation, and stability assessment of analyte(s) of interest
- Experimental guidelines and protocols for quantitative LC-MS bioanalysis of challenging molecules, including pro-drugs, acyl glucuronides, N-oxides, reactive compounds, and photosensitive and autooxidative compounds

With its focus on current bioanalytical practice, *Handbook of LC-MS Bioanalysis* enables bioanalytical scientists to develop and validate robust LC-MS assay methods, all in compliance with current regulations and standards.

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Editorial Review

Review

“In that, it serves as a source of information and of literature references for further in-depth reading. It is very useful to have but, like always, it does not give all answers to every question one may have.”

(*ChemMedChem*, 1 June 2014)

About the Author

WENKUI LI, PhD, is Senior Fellow in the Department of Drug Metabolism & Pharmacokinetics at Novartis Institutes for BioMedical Research, where he focuses on regulated LC-MS/MS bioanalysis for the toxicokinetic and pharmacokinetic assessment of drug candidates. Dr. Li is a member of the editorial board of *Biomedical Chromatography*.

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