



Analytical Methods for Therapeutic Drug Monitoring and Toxicology

By Q. Alan Xu, Timothy L. Madden

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This book is a compilation of summarized analytical methods designed to serve the needs of pharmacologists, toxicologists, and other allied health professionals involved in the development, use, or monitoring of pharmaceuticals. The summaries are structured monographs on 511 different drug entities detailing 964 different analytical methods, providing the reader with a thorough description of method validation. These analytical methods include not only high performance liquid chromatography (HPLC), but also gas chromatography (GC), immunoassay, electrophoresis, ultra performance liquid chromatography (UPLC) coupled with UV (UPLC-UV) detection and mass spectrometry (UPLC-MS/MS). With more detailed and complete summaries than sketchy and abbreviated formats used in the other books, this book provides a thorough description of method validation and results, as well as the operating parameters.

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Editorial Review

Review

"This book is valuable for pharmacologists, toxicologists, and health professionals working in academic, industrial, and regulatory agencies who are involved in therapeutic drug monitoring. . . This is a comprehensive sourcebook that details 964 different analytical methods for 511 different drugs." (Doody's, 9 September 2011)

"This is an important reference for students and professionals involved with barley research, production, trade, and utilization. Editor Ullrich is an agronomist affiliated with Washington State U." (Booknews, 1 April 2011)

From the Back Cover

The state-of-the-field in analytical techniques and instrumentation for therapeutic drug monitoring

Therapeutic drug monitoring plays a critical role in today's individualized medicine. Designed to serve the needs of pharmacologists, toxicologists, and all other allied health professionals involved in the development, use, or monitoring of pharmaceuticals, this compilation of summarized analytical methods, drawn from the published literature, gathers together structured monographs on 511 different drug entities detailing 964 different analytical methods.

This book is unique because it contains analytical methods including not only high-performance liquid chromatography (HPLC), but also gas chromatography (GC), immunoassay, electrophoresis, and ultra high performance liquid chromatography (UHPLC). The authors include summaries in detailed text format, providing the readers with a thorough description of method validation.

This book is not intended to be a "how to" book of drug analysis in human biological matrices, but rather a sourcebook for knowledgeable analysts skilled in analytical techniques such as HPLC, UHPLC, GC, LC-MS/MS, GC-MS/MS, immunoassay, and electrophoresis. With detailed summaries, Analytical Methods for Therapeutic Drug Monitoring and Toxicology may help analysts find suitable, previously validated analytical methods, thereby avoiding lengthy literature searches.

About the Author

Q. Alan Xu, PhD, is a Research Scientist in the Pharmacology and Analytical Facility at the University of Texas MD Anderson Cancer Center. He has written seventy scientific papers, book chapters, and one book.

Timothy L. Madden, PharmD, DABCP, FCCP, is an Associate Professor in the Department of Experimental Therapeutics and Director of the Pharmaceutical Development Center at the University of Texas MD Anderson Cancer Center. He is a consultant for numerous pharmaceutical companies, holds fifteen patents, and has written more than 100 peer-reviewed papers, abstracts, and book chapters.

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