LC/MS APPLICATIONS IN DRUG DEVELOPMENT

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Mike S. Lee, Mingshe Zhu

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methods of validation for LC MS techniques and applications used in modern clinical pharmacology Applications of Pharmacokinetic Principles in Drug Development Rajesh Krishna, 2012-12-06 This volume is an important advancement in the application of pharmacokinetic PK and pharmacodynamic PO principles to drug development The series of topics presented deal with the application of these tools to everyday decisions that a pharmaceutical scientist encounters The ability to integrate these topics using PK and PO methods has optimized drug development pathways in the clinic New technologies in the areas of in vitro assays that are more predictive of human absorption and metabolism and advancement in bioanalytical assays are leading the way to minimize drug failures in later more expensive clinical development programs of Pharmacokinetics and pharmacodynamics have become an important component understanding the drug action on the body and is becoming increasingly important in drug labeling due to it s potential for predicting drug behavior in populations that may be difficult to study in adequate numbers during drug development. The ability to correlate drug exposure to effect and model it during the drug development value chain provides valuable insight into optimizing the next steps to derive maximum information from each study These principles and modeling techniques have resulted in an expanded and integrated view of PK and PO and have led to the expectations that we may be able to optimally design clinical trials and eventually lead us to identifying the optimal therapy for the patient while minimizing cost and speeding up drug development There is wide utility for the book both as a text and as a reference Mass Spectrometry in Medicinal Chemistry Klaus Wanner, Georg Höfner, 2007-04-09 This first overview of mass spectrometry based pharmaceutical analysis is the key to improved high throughput drug screening rational drug design and analysis of multiple ligand target interactions. The ready reference opens with a general introduction to the use of mass spectrometry in pharmaceutical screening followed by a detailed description of recently developed analytical systems for use in the pharmaceutical laboratory Applications range from simple binding assays to complex screens of biological activity and systems containing multiple targets or ligands all highly relevant techniques in the early stages in drug discovery from target characterization to hit and lead finding Mass Spectrometry Handbook Mike S. Lee, 2012-04-16 Due to its enormous sensitivity and ease of use mass spectrometry has grown into the analytical tool of choice in most industries and areas of research This unique reference provides an extensive library of methods used in mass spectrometry covering applications of mass spectrometry in fields as diverse as drug discovery environmental science forensic science clinical analysis polymers oil composition doping cellular research semiconductor ceramics metals and alloys and homeland security The book provides the reader with a protocol for the technique described including sampling methods and explains why to use a particular method and not others Essential for MS specialists working in industrial environmental and clinical fields Chromatography E. Heftmann, 2004-04-16 Chromatography has emerged as the most important and versatile analytical method The book is not only an updated version of Heftmann's classical text but it covers areas of future importance such as microfluidics and computer resources Under his experienced guidance authorities in each field have

contributed their practical experience to an integrated treatment of modern micro analysis In Part A the theoretical basis of individual separation methods is explained and the technical aspects are illustrated It includes the theory of gas and liquid chromatography as well as specific chromatographic techniques such as size exclusion planar ion and affinity chromatography as well as various electrokinetic separation techniques Microfluidics are covered for the first time and useful sources of analytical instruments are listed and evaluated 1 Each chapter written by an authority 2 Thorough treatment of the theoretical basis of separation methods3 Practical guide for performing analyses **HPLC** for Pharmaceutical Scientists Yuri V. Kazakevich, Rosario LoBrutto, 2007-02-16 HPLC for Pharmaceutical Scientists is an excellent book for both novice and experienced pharmaceutical chemists who regularly use HPLC as an analytical tool to solve challenging problems in the pharmaceutical industry It provides a unified approach to HPLC with an equal and balanced treatment of the theory and practice of HPLC in the pharmaceutical industry In depth discussion of retention processes modern HPLC separation theory properties of stationary phases and columns are well blended with the practical aspects of fast and effective method development and method validation Practical and pragmatic approaches and actual examples of effective development of selective and rugged HPLC methods from a physico chemical point of view are provided This book elucidates the role of HPLC throughout the entire drug development process from drug candidate inception to marketed drug product and gives detailed specifics of HPLC application in each stage of drug development The latest advancements and trends in hyphenated and specialized HPLC techniques LC MS LC NMR Preparative HPLC High temperature HPLC high pressure liquid **HPLC Method Development for Pharmaceuticals** Satinder Ahuja, Henrik chromatography are also discussed Rasmussen, 2011-09-21 High pressure or high performance liquid chromatography HPLC is the method of choice for checking purity of new drug candidates monitoring changes during scale up or revision of synthetic procedures evaluating new formulations and running control assurance of the final drug product HPLC Method Development for Pharmaceuticals provides an extensive overview of modern HPLC method development that addresses these unique concerns Includes a review and update of the current state of the art and science of HPLC including theory modes of HPLC column chemistry retention mechanisms chiral separations modern instrumentation including ultrahigh pressure systems and sample preparation Emphasis has been placed on implementation in a pharmaceutical setting and on providing a practical perspective HPLC Method Development for Pharmaceuticals is intended to be particularly useful for both novice and experienced HPLC method development chemists in the pharmaceutical industry and for managers who are seeking to update their knowledge Covers the requirements for HPLC in a pharmaceutical setting including strategies for software and hardware validation to allow for use in a regulated laboratory Provides an overview of the pharmaceutical development process clinical phases chemical and pharmaceutical development activities Discusses how HPLC is used in each phase of pharmaceutical development and how methods are developed to support activities in each phase **A Comprehensive**

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