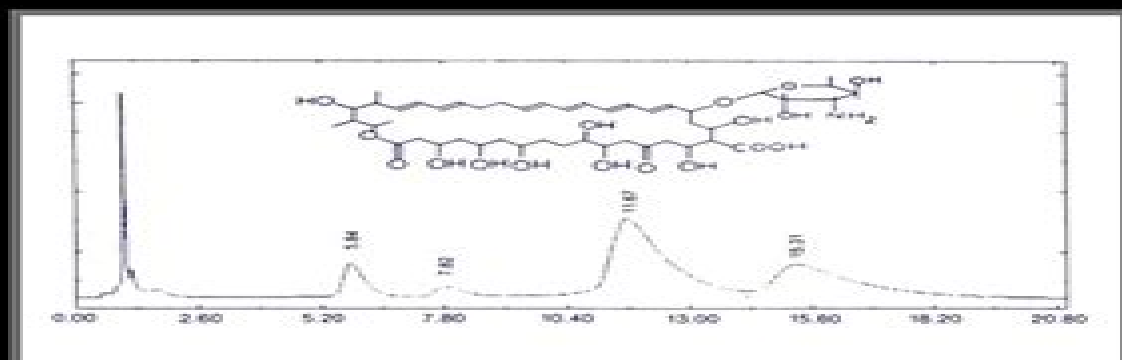


CHROMATOGRAPHIC SCIENCE SERIES

VOLUME 74

Chromatographic Analysis of Pharmaceuticals

Second Edition, Revised and Expanded



edited by
John A. Adamovics

Chromatographic Analysis Of Pharmaceuticals Second Edition Chromatographic Science Series

Nina C. Gonnella



Chromatographic Analysis Of Pharmaceuticals Second Edition Chromatographic Science Series:

Chromatographic Analysis of Pharmaceuticals John A. Adamovics, 2017-09-29 Updated and revised throughout Second Edition explores the chromatographic methods used for the measurement of drugs impurities and excipients in pharmaceutical preparations such as tablets ointments and injectables Contains a 148 page table listing the chromatographic data of over 1300 drugs and related substances including sample matrix analyzed sample handling procedures column packings mobile phase mode of detection and more *Chromatographic Analysis of Pharmaceuticals, Second Edition* John A. Adamovics, 1996-10-11 Updated and revised throughout Second Edition explores the chromatographic methods used for the measurement of drugs impurities and excipients in pharmaceutical preparations such as tablets ointments and injectables Contains a 148 page table listing the chromatographic data of over 1300 drugs and related substances including sample matrix analyzed sample handling procedures column packings mobile phase mode of detection and more *Modern Methods of Pharmaceutical Analysis, Second Edition, Volume II* Roger E. Schirmer, 2024-11-01 This book reviews several of the newer methods that find wide application in pharmaceutical analysis as well as several older methods of unique importance The principle of each technique is discussed with emphasis on factors that directly affect its proper application to analytical problems Generics and Bioequivalence Andre J. Jackson, 2019-06-13 Published in 1994 This text focuses on the determination of bioequivalence between formulations that are pharmaceutically equivalent and manufactured using acceptable chemistry manufacturing and controls and in accordance with Good Manufacturing Practices *Handbook of Isolation and Characterization of Impurities in Pharmaceuticals* Satinder Ahuja, Karen Mills Alsante, 2003-07-18 The United States Food and Drug Administration FDA and other regulatory bodies around the world require that impurities in drug substance and drug product levels recommended by the International Conference on Harmonisation ICH be isolated and characterized Identifying process related impurities and degradation products also helps us to understand the production of impurities and assists in defining degradation mechanisms When this process is performed at an early stage there is ample time to address various aspects of drug development to prevent or control the production of impurities and degradation products well before the regulatory filing and thus assure production of a high quality drug product This book therefore has been designed to meet the need for a reference text on the complex process of isolation and characterization of process related synthesis and formulation impurities and degradation products to meet critical regulatory requirements It s objective is to provide guidance on isolating and characterizing impurities of pharmaceuticals such as drug candidates drug substances and drug products The book outlines impurity identification processes and will be a key resource document for impurity analysis isolation synthesis and characterization Provides valuable information on isolation and characterization of impurities Gives a regulatory perspective on the subject Describes various considerations involved in meeting regulatory requirements Discusses various sources of impurities and degradation products *LC-NMR* Nina C. Gonnella, 2020-01-15

The isolation and structural characterization of substances present at very low concentrations as is necessary to satisfy regulatory requirements for pharmaceutical drug degradants and impurities can present scientific challenges. The coupling of HPLC with NMR spectroscopy has been at the forefront of cutting edge technologies to address these issues. LC NMR: Expanding the Limits of Structure Elucidation presents a comprehensive overview of key concepts in HPLC and NMR that are required to achieve definitive structure elucidation with very low levels of analytes. Because skill sets from both of these highly established disciplines are involved in LC NMR, the author provides introductory background to facilitate readers' proficiency in both areas, including an entire chapter on NMR theory. The much anticipated second edition provides guidance in setting up LC NMR systems, discussion of LC methods that are compatible with NMR, and an update on recent hardware and software advances for system performance such as improvements in magnet design, probe technology, and solvent suppression techniques that enable unprecedented mass sensitivity in NMR. This edition features methods to quantify concentration and assess purity of isolated metabolites on the micro scale and incorporates computational approaches to accelerate the structure elucidation process. The author also includes implementation and application of qNMR and automated and practical use of computational chemistry combined with QM and DFT to predict highly accurate NMR chemical shifts. The text focuses on current developments in chromatographic NMR integration with particular emphasis on utility in the pharmaceutical industry. Applications include trace analysis, analysis of mixtures, and structural characterization of degradation products, impurities, metabolites, peptides, and more. The text discusses novel uses and emerging technologies that challenge detection limits as well as future directions for this important technique. This book is a practical primary resource for NMR structure determination, including theory and application that guides the reader through the steps required for isolation and NMR structure elucidation on the micro scale.

Introduction to Analytical Gas Chromatography, Second Edition, Revised and Expanded Raymond P.W. Scott, 1997-11-24. Covering the principles of chromatographic separation, the chromatographic process from a physical chemical perspective, instrumentation for performing analyses, and operational procedures, this second edition offers information needed for the successful practice of gas chromatography. It contains examples of available apparatus, detectors, columns, stationary phases, and operating conditions.

Analysis of Drug Impurities Richard J. Smith, Michael L. Webb, 2008-04-15. A key component of the overall quality of a pharmaceutical is control of impurities, as their presence, even in small amounts, may affect drug safety and efficacy. The identification and quantification of impurities to acceptable standards presents a significant challenge to the analytical chemist. Analytical science is developing rapidly and provides increasing opportunity to identify the structure and therefore the origin and safety implications of these impurities, and the challenges of their measurement drives the development of modern quantitative methods. Written for both practicing and student analytical chemists, *Analysis of Drug Impurities* provides a detailed overview of the challenges and the techniques available to permit accurate identification and quantification of drug impurities.

National Library of Medicine Current Catalog National Library of Medicine (U.S.),1990 *High-Performance Thin-Layer Chromatography (HPTLC)* ManMohan Srivastava,2010-11-15 The present edited book is the presentation of 18 in depth national and international contributions from eminent professors scientists and instrumental chemists from educational institutes research organizations and industries providing their views on their experience handling observation and research outputs on HPTLC a multi dimensional instrumentation The book describes the recent advancements made on TLC which have revolutionized and transformed it into a modern instrumental technique HPTLC The book addresses different chapters on HPTLC fundamentals principle theory understanding instrumentation implementation optimization validation automation and qualitative and quantitative analysis applications phytochemical analysis biomedical analysis herbal drug quantification analytical analysis finger print analysis and potential for hyphenation HPTLC future to combinatorial approach HPTLC MS HPTLC FTIR and HPTLC Scanning Diode Laser The chapters in the book have been designed in such away that the reader follows each step of the HPTLC in logical order

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