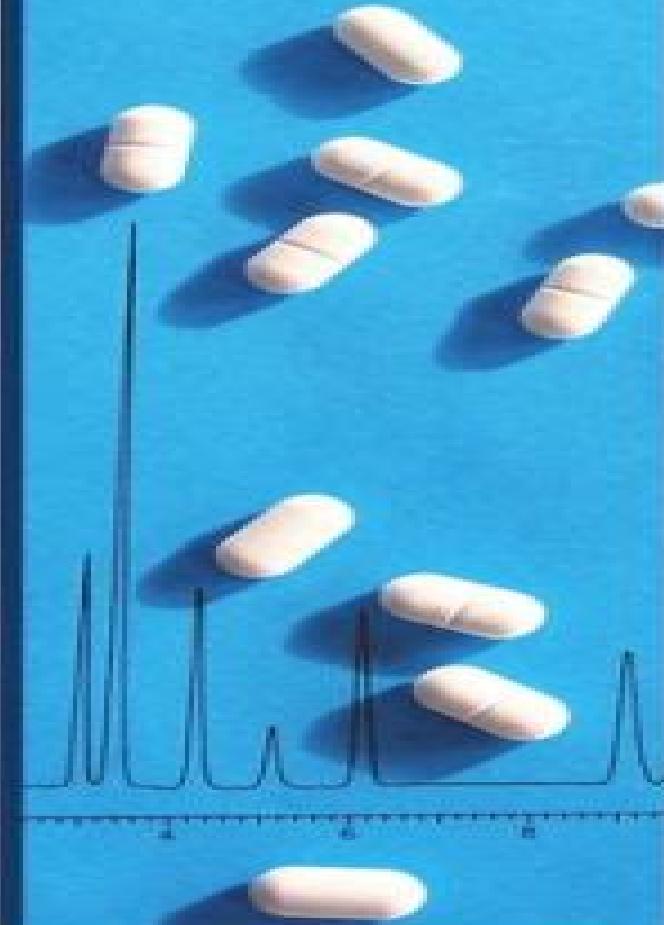


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An Introduction to HPLC for Pharmaceutical Analysis Oona McPolin,2009-03-01 If you are new to HPLC this book provides an invaluable guide to how HPLC is actually used when analysing pharmaceuticals It is full of practical advice on the operation of HPLC systems combined with the necessary theoretical knowledge to ensure understanding of the technique Key features include A thorough discussion of the stationary phase enabling the reader to make sense of the many parameters used to describe a HPLC column Practical advice and helpful hints for the preparation and use of mobile phase A complete overview of each of the different components which together make up a HPLC system A description of the contents of a typical HPLC analytical method and how to interpret these A step by step guide on how to follow a method and set up a HPLC analysis A discussion of system suitability criteria and how to interpret the values obtained during an analysis Explanation of the common methods of calibration and quantification used for pharmaceutical analysis

Handbook of Pharmaceutical Analysis by HPLC Satinder Ahuja,Michael Dong,2005-02-09 High pressure liquid chromatography frequently called high performance liquid chromatography HPLC or LC is the premier analytical technique in pharmaceutical analysis and is predominantly used in the pharmaceutical industry Written by selected experts in their respective fields the Handbook of Pharmaceutical Analysis by HPLC Volume 6 provides a complete yet concise reference guide for utilizing the versatility of HPLC in drug development and quality control Highlighting novel approaches in HPLC and the latest developments in hyphenated techniques the book captures the essence of major pharmaceutical applications assays stability testing impurity testing dissolution testing cleaning validation high throughput screening A complete reference guide to HPLC Describes best practices in HPLC and offers tricks of the trade in HPLC operation and method development Reviews key HPLC pharmaceutical applications and highlights currents trends in HPLC ancillary techniques sample preparations and data handling

HPLC for Pharmaceutical Scientists Yuri V. Kazakevich,Rosario LoBrutto,2006-12-13 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 chromatography are also discussed

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Pharmaceutical Industry Godwin W. Fong, 1991-03-14 A practical guide for chemists in the pharmaceutical industry to making automated analyses of drugs that will meet the standards of regulatory agencies. Reviews the standard techniques of high performance liquid chromatography specialized detection methods automation in pharmaceutical analysis an

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Filling a gap in the literature for a hands on guide focusing on everyday laboratory challenges this English edition has been expanded and revised using the feedback received on the successful German precursor Throughout the book Professor Mascher draws on his 30 years of experience and provides abundant practical advice troubleshooting and other hints highlighted in boxes as well as a broad selection of walkthrough case studies Based on a course taught by the author the first part of the book intuitively explains all steps of routine bioanalysis and explains how to set up a robust inexpensive and efficient method for a given substance In the second part he includes 20 worked example cases that highlight common challenges and how to overcome them With its appendix containing tried and tested analytical methods for 100 clinically relevant substances from the author s own laboratory complete with spectral and MS data as well as literature references and basic pharmacokinetic information this is a life long companion for everyone working in clinical pharmaceutical and biochemical analysis Comments to the German book The book comes to life through its examples showing not only what did work in the author s laboratory but also what didn t ChemieReport Indispensable for novices while even old hands will be able to expand their knowledge A collection of analytical data for ca 100 substances completes the book s offering leaving

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Davani, 2017-07-12 A comprehensive introduction for scientists engaged in new drug development analysis and approvals Each year the pharmaceutical industry worldwide recruits thousands of recent science graduates especially chemistry analytical chemistry pharmacy and pharmaceutical majors into its ranks However because of their limited background in pharmaceutical analysis most of those new recruits find making the transition from academia to industry very difficult Designed to assist both recent graduates as well as experienced chemists or scientists with limited regulatory compendial or pharmaceutical analysis background make that transition Pharmaceutical Analysis for Small Molecules is a concise yet comprehensive introduction to the drug development process and analysis of chemically synthesized small molecule drugs It features contributions by distinguished experts in the field including editor and author Dr Behnam Davani an analytical chemist with decades of technical management and teaching experience in compendial regulatory and industry This book provides an introduction to pharmaceutical analysis for small molecules non biologics using commonly used techniques for drug characterization and performance tests The driving force for industry to perform pharmaceutical analyses is submission of such data and supporting documents to regulatory bodies for drug approval in order to market their products In addition related required supporting studies including good laboratory documentation practices including analytical instrument qualification are highlighted in this book Topics covered include Drug Approval Process and Regulatory Requirements private standards Pharmacopeias and Compendial Approval Process public standards Common methods in pharmaceutical analysis

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an abundance of diagrams chromatograms tables and case studies and supported with selected key references and Web resources With intuitive explanations and clear figures Modern HPLC for Practicing Scientists is an essential resource for practitioners of all levels who need to understand and utilize this versatile analytical technology *HPLC in Pharmaceutical Analysis: Practical applications* Gábor Szepesi,1990 **Supercritical Fluid Chromatography** Gregory K.

Webster,2014-02-04 Analytical chemists in the pharmaceutical industry are always looking for more efficient techniques to meet the analytical challenges of today's pharmaceutical industry One technique that has made steady advances in pharmaceutical analysis is supercritical fluid chromatography SFC SFC is meeting the chromatography needs of the industry by providing efficient and selective testing capabilities on the analytical and preparative scale The supercritical fluid mobile phase consisting mainly of CO₂ facilitates cost reduction costs and helps the industry in meeting green chemistry standards This book provides a comprehensive overview of the use of SFC in pharmaceutical analysis *Supercritical Fluid Chromatography* reviews the use of SFC in drug discovery applications and describes its application in drug development When a drug is developed and brought to market it is tested many times for impurities and degradants enantiomeric purity and analytical and preparative isolations it is tested during discovery and development and for under regulated and unregulated methodologies The book describes the use of SFC for each of these applications and discusses more in depth topics such as the use of SFC in mass spectrometric and polarographic detection The book also sheds light on the role of SFC in drug development from natural products and the advancement of SFC with new technologies and its use in pilot scale operations as a chromatographic technique *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

HPLC and UHPLC for Practicing Scientists Michael W. Dong,2019-07-10 A concise yet comprehensive reference guide on HPLC UHPLC that focuses on its fundamentals latest developments and best practices in the pharmaceutical and biotechnology industries Written for practitioners by an expert practitioner this new edition of HPLC and UHPLC for Practicing Scientists adds numerous updates to its coverage of high performance liquid chromatography including comprehensive information on UHPLC ultra high pressure liquid chromatography and the continuing migration of HPLC to UHPLC the modern standard platform In addition to introducing readers to HPLC's fundamentals applications and developments the book describes basic theory and terminology for the novice and reviews relevant concepts best practices and modern trends for the experienced practitioner HPLC and UHPLC for Practicing Scientists Second Edition offers three new chapters One is a standalone chapter on UHPLC covering concepts benefits practices and potential issues Another examines liquid chromatography mass spectrometry LC

MS The third reviews at the analysis of recombinant biologics particularly monoclonal antibodies mAbs used as therapeutics While all chapters are revised in the new edition five chapters are essentially rewritten HPLC columns instrumentation pharmaceutical analysis method development and regulatory aspects The book also includes problem and answer sections at the end of each chapter Overviews fundamentals of HPLC to UHPLC including theories columns and instruments with an abundance of tables figures and key references Features brand new chapters on UHPLC LC MS and analysis of recombinant biologics Presents updated information on the best practices in method development validation operation troubleshooting and maintaining regulatory compliance for both HPLC and UHPLC Contains major revisions to all chapters of the first edition and substantial rewrites of chapters on HPLC columns instrumentation pharmaceutical analysis method development and regulatory aspects Includes end of chapter quizzes as assessment and learning aids Offers a reference guide to graduate students and practicing scientists in pharmaceutical biotechnology and other industries Filled with intuitive explanations case studies and clear figures HPLC and UHPLC for Practicing Scientists Second Edition is an essential resource for practitioners of all levels who need to understand and utilize this versatile analytical technology It will be a great benefit to every busy laboratory analyst and researcher

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