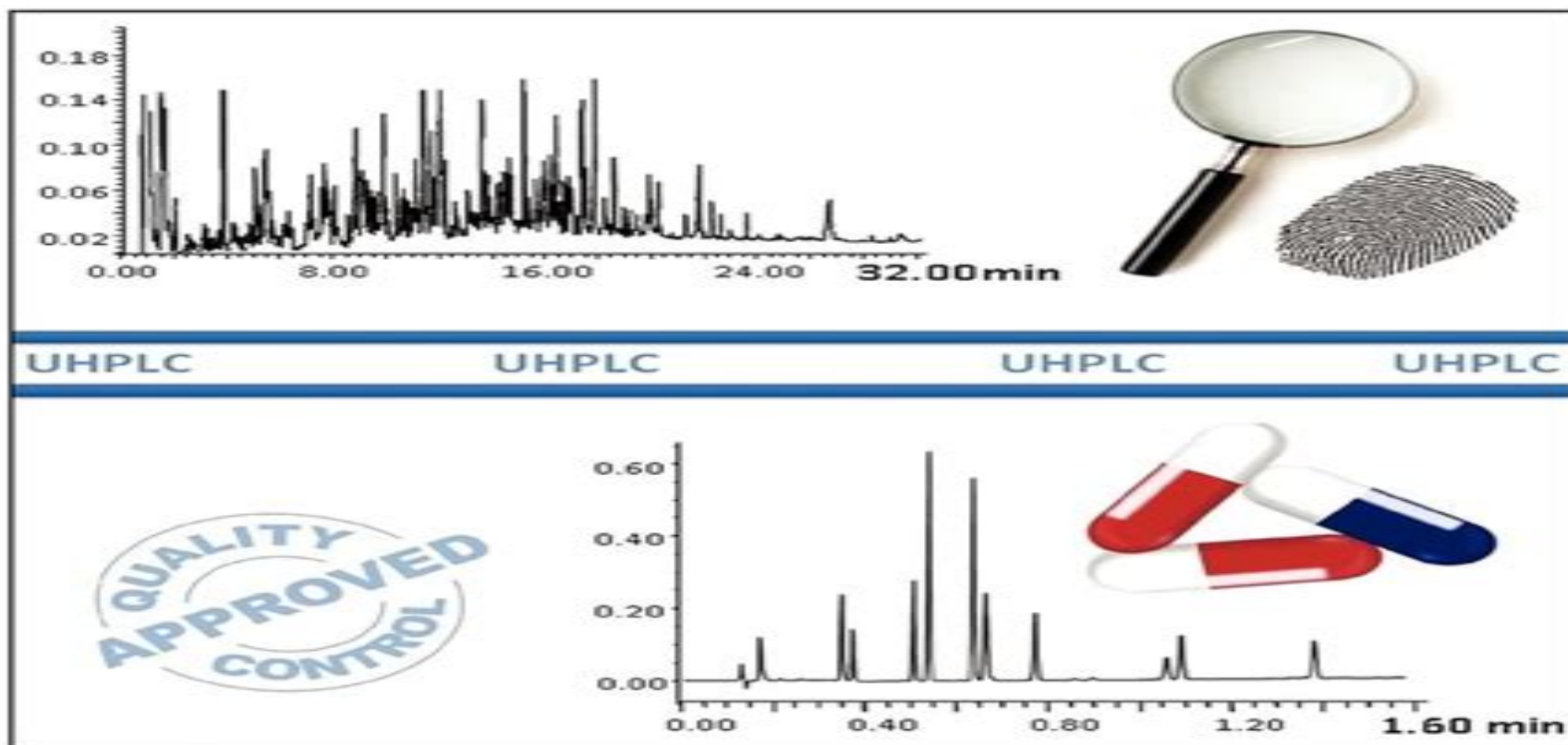


Edited by Davy Guillarme and Jean-Luc Veuthey

UHPLC in Life Sciences



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UHPLC in Life Sciences Davy Guillarme, Jean-Luc Veuthey, 2015-11-09 Since its commercial introduction in 2004 UHPLC Ultra High Performance Liquid Chromatography has begun to replace conventional HPLC in academia and industry and interest in this technique continues to grow Both the increases in speed and resolution make this an attractive method particularly to the life sciences and more than 1500 papers have been written on this strongly evolving topic to date This book provides a solid background on how to work with UHPLC and its application to the life sciences The first part of the book covers the basics of this approach and the specifics of a UHPLC system providing the reader with a solid background to working properly with such a system The second part examines the application of UHPLC to the life sciences with a focus on drug analysis strategies UHPLC MS a key technique in pharmaceutical and toxicological analyses is also examined in detail The editors Davy Guillarme and Jean Luc Veuthey were some of the earliest adopters of UHPLC and have published and lectured extensively on this topic Between them they have brought together an excellent team of contributors from Europe and the United States presenting a wealth of expertise and knowledge This book is an essential handbook for anyone wishing to adopt an UHPLC system in either an academic or industrial setting and will benefit postgraduate students and experienced workers alike

Liquid Chromatography Salvatore Fanali, Bezhn Chankvetadze, Paul R. Haddad, Colin Poole, Marja-Liisa Riekkola, 2023-04-20 Liquid Chromatography Fundamentals and Instrumentation Third Edition offers a single source of authoritative information on all aspects of the practice of modern liquid chromatography The book gives those working in academia and industry the opportunity to learn refresh and deepen their understanding of the field by covering basic and advanced theoretical concepts recognition mechanisms conventional and advanced instrumentation method development data analysis and more This third edition addresses new developments in the field with updated chapters from expert researchers The book is a valuable reference for research scientists teachers university students industry professionals in research and development and quality control managers Emphasizes the integration of chromatographic methods and sample preparation Provides important data related to complex matrices sample preparation and data handling Gives background information to facilitate the choice of LC sub technique and experimental conditions mobile and stationary phases detectors data processing and more Offers comprehensive updates to all chapters Includes new chapters on chiral recognition co solvents and mobile phase additives physicochemical measurements and identification and quantitation in mass spectrometry

The HPLC Expert II Stavros Kromidas, 2017-04-10 How can I use my HPLC UHPLC equipment in an optimal way where are the limitations of the technique These questions are discussed in detail in the sequel of the successful HPLC Expert in twelve chapters written by experts in the respective fields The topics encompass complementary to the first volume typical HPLC users problems and questions such as gradient optimization and hyphenated techniques LC MS An important key aspect of the book is UHPLC For which analytical problem is it essential what should be considered Besides presentation of

latest developments directly from the main manufacturers also UHPLC users and independent service engineers impart their knowledge Consistent with the target groups the level is advanced but the emphasis is on practical applications

Chromatographic Methods in Metabolomics Tuulia Hyotylainen, Susanne Wiedmer, 2013 Metabolomics is an emerging field and this is the first book to present chromatographic techniques in metabolomics in a fundamental way *Validation of Chromatography Data Systems* Robert D. McDowall, 2016-11-25 Guiding chromatographers working in regulated industries and helping them to validate their chromatography data systems to meet data integrity business and regulatory needs This book is a detailed look at the life cycle and documented evidence required to ensure a system is fit for purpose throughout the lifecycle Initially providing the regulatory data integrity and system life cycle requirements for computerised system validation the book then develops into a guide on planning specifying managing risk configuring and testing a chromatography data system before release This is followed by operational aspects such as training integration and IT support and finally retirement All areas are discussed in detail with case studies and practical examples provided as appropriate The book has been carefully written and is right up to date including recently released FDA data integrity guidance It provides detailed guidance on good practice and expands on the first edition making it an invaluable addition to a chromatographer's book shelf *Mechanochromic Fluorescent Materials* Jiarui Xu, Zhenguo Chi, 2014-05-30

Mechanochromic fluorescent or mechanofluorochromic materials change their emission colours spectra when an appropriate external mechanical force stimulus is applied This is an important group of materials with a huge range of applications including use in sensors memory chips security inks and light devices Mechanochromic Fluorescent Materials introduces the reader to the concept of mechanofluorochromism and the variety of applications of this group of materials Prominent international figures in mechanofluorochromism consider the innovative research in this field over the last ten years Chapters provide in depth coverage of most reported mechanofluorochromic systems including organic and organic inorganic complexes polymer and polymer composites and aggregation induced emission This book is aimed to inform all students and researchers with an interest in mechanofluorochromism and to help researchers identify and synthesize more of these materials and develop the study and application of mechanofluorochromic materials Quantitative In Silico

Chromatography Toshihiko Hanai, 2014-05-07 The coupling of mass spectrometry or nuclear magnetic resonance to chromatography has broadened the possibilities for determining organic reaction mechanisms And while many results have been published reporting these even more can be achieved through modern computational methods Combining computational and theoretical techniques with advanced chromatographic methods offers a powerful tool for quantitatively determining molecular interactions This book presents the possibilities for characterising biological applications by combining analytical and computational chemistries Written by the author of HPLC A Practical Guide RSC 1999 the book examines not only the behaviour of biological reactions per se but also describes the behaviour of biological molecules in

chromatography systems Various software packages are reviewed and most computations can be performed on a standard PC using accessible software Consideration is given to a variety of chromatographic techniques and strategies for high sensitivity detection are presented The first book of its kind it will inspire readers to explore the possibilities of combining these techniques in their own work whether at an industrial or academic level Der HPLC-Experte II Stavros Kromidas, 2015-05-08 Erstmalig in einem Buch liegt die moderne HPLC UHPLC Anlage im Fokus In kompakter Form wird gezeigt wie die verschiedenen Geräte für eine maximale Auflösung optimal genutzt werden können Aber auch wie vorzugehen ist wenn eher die Robustheit im Vordergrund steht Praxisnah erfährt der erfahrene Leser welche Möglichkeiten ihm heute zur Verfügung stehen aber auch wo die Grenzen einer modernen HPLC UHPLC Anlage liegen Ein Handbuch von Praktikern für Praktiker Teil 1 Wann sollte ich meine UHPLC als UHPLC betreiben Die moderne HPLC UHPLC Anlage Die Anforderungen heute an die einzelnen Module Der Sülenthalerthermostat eine einfache Angelegenheit Das Problem der Bandenverbreiterung in einer HPLC UHPLC Anlage Der Gradient Anforderungen optimaler Einsatz Tricks und Fallstricke Anforderungen an LC Hardware bei der Kopplung mit unterschiedlichen Massenspektrometern 2D Chromatographie Möglichkeiten und Grenzen Materialien in HPLC UHPLC was für welchen Zweck Teil 2 Was muss die Software können damit die Hardware optimal genutzt werden kann Aspekte der modernen HPLC Erfahrungsbericht eines Anwenders Erfahrungsbericht eines unabhängigen Serviceingenieurs Tipps und Empfehlungen für einen optimalen Betrieb von Agilent und Waters Anlagen Der Analyt die Fragenstellung und die UHPLC der Einsatz von UHPLC in der Praxis Geräte Hersteller berichten Beiträge von Agilent Shimadzu und Thermo Scientific RSC chromatography monographs Roger Malcolm Smith, **HPLC** Toshihiko Hanai, 1999 How can these compounds be separated Why was that method used These are the two basic questions often asked by students of chromatography HPLC A Practical Guide provides the answers enabling the reader to grasp the concepts of the technique using simple representative chromatograms Divided into six chapters this practical guide covers basic concepts of HPLC instrumentation stationary phase materials eluents column efficiency and the influence of physical chemistry on separations Focusing on the basic considerations such as selection of stationary phase and eluent rather than specific applications sections on troubleshooting are also included Uniquely the descriptions of chromatographic separations are based on solubility using molecular properties and solubility parameters are used to analyse the selections of chromatographic mode and column Presenting the chemistry of liquid chromatography for undergraduate students this valuable practical guide will also be useful for laboratory staff in industry and academia RSC Chromatography Monographs, 1988 Supercritical fluid chromatography Roger M. Smith, 1989 **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 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

HPLC Joel K. Swadesh, 2000-12-21 Product specifications regulatory constraints and tight production schedules impose considerable pressures on separation scientists in industry The first edition of HPLC Practical and Industrial Applications helped eliminate the need for extensive library or laboratory research when confronting a problem an unfamiliar technique or work in a n

Ultra-High Performance Liquid Chromatography and Its Applications Q. Alan Xu, 2013-04-01 Explores both the benefits and limitations of new UHPLC technology High performance liquid chromatography HPLC has been widely used in analytical chemistry and biochemistry to separate identify and quantify compounds for decades The science of liquid chromatography however was revolutionized a few years ago with the advent of ultra high performance liquid chromatography UHPLC which made it possible for researchers to analyze sample compounds with greater speed resolution and sensitivity Ultra High Performance Liquid Chromatography and Its Applications enables readers to maximize the performance of UHPLC as well as develop UHPLC methods tailored to their particular research needs Readers familiar with HPLC methods will learn how to transfer these methods to a UHPLC platform and vice versa In addition the book explores a variety of UHPLC applications designed to support research in such

fields as pharmaceuticals food safety clinical medicine and environmental science The book begins with discussions of UHPLC method development and method transfer between HPLC and UHPLC platforms It then examines practical aspects of UHPLC Next the book covers Coupling UHPLC with mass spectrometry Potential of shell particles in fast liquid chromatography Determination of abused drugs in human biological matrices Analyses of isoflavones and flavonoids Therapeutic protein characterization Analysis of illicit drugs The final chapter of the book explores the use of UHPLC in drug metabolism and pharmacokinetics studies for traditional Chinese medicine With its frank discussions of UHPLC's benefits and limitations *Ultra High Performance Liquid Chromatography and Its Applications* equips analytical scientists with the skills and knowledge needed to take full advantage of this new separation technology *Advances in Chromatography* Nelu Grinberg, Eli Grushka, 2017-08-15 For more than five decades scientists and researchers have relied on the *Advances in Chromatography* series for the most up to date information on a wide range of developments in chromatographic methods and applications For Volume 54 the series editors have invited established well known chemists to offer cutting edge reviews of chromatographic methods applied in the life sciences that emphasize the underlying principle of separation science The clear presentation of topics and vivid illustrations for which this series has become known makes the material accessible and engaging to analytical biochemical organic polymer and pharmaceutical chemists at all levels of technical skill **Liquid Chromatography** Salvatore Fanali, Bezhn Chankvetadze, Paul R. Haddad, Colin Poole, Marja-Liisa Riekkola, 2023-04-20 *Liquid Chromatography Applications* Third Edition delivers a single source of authoritative information on all aspects of the practice of modern liquid chromatography The text gives those working in academia and industry the opportunity to learn refresh and deepen their understanding of the field by covering basic and advanced theoretical concepts recognition mechanisms conventional and advanced instrumentation method development data analysis and more This third edition addresses new developments in the field with updated chapters from expert researchers The book is a valuable reference for research scientists teachers university students industry professionals in research and development and quality control managers Emphasizes the integration of chromatographic methods and sample preparation Provides important data related to complex matrices sample preparation and data handling Covers the most interesting and valuable applications in different fields e.g. proteomic metabolomics foodomics pollutants and contaminants and drug analysis forensic toxicological pharmaceutical biomedical Offers comprehensive updates to all chapters Adds new chapters on selection of liquid chromatographic mode proteomics doping analysis analysis of microplastics and analysis of pharmaceutically and biologically relevant isoforms *Modern HPLC for Practicing Scientists* Michael W. Dong, 2006-05-19 A comprehensive yet concise guide to Modern HPLC Written for practitioners by a practitioner *Modern HPLC for Practicing Scientists* is a concise text which presents the most important High Performance Liquid Chromatography HPLC fundamentals applications and developments It describes basic theory and terminology for the novice and reviews relevant concepts best practices and modern trends for

the experienced practitioner Moreover the book serves well as an updated reference guide for busy laboratory analysts and researchers Topics covered include HPLC operation Method development Maintenance and troubleshooting Modern trends in HPLC such as quick turnaround and greener methods Regulatory aspects While broad in scope this book focuses particularly on reversed phase HPLC the most common separation mode and on applications for the pharmaceutical industry the largest user segment Accessible to both novice and intermediate HPLC users information is delivered in a straightforward manner illustrated with 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

Chromatography Royal Society of Chemistry. Joint Pharmaceutical Analysis Group, Royal Society of Chemistry. Scottish Region, Royal Society of Chemistry. Chromatography and Electrophoresis Group, 1984 **Practice of High Performance**

Liquid Chromatography Heinz Engelhardt, 2011-12-27 During its short 20 year history High Performance Liquid Chromatography HPLC has won itself a firm place amongst the instrumental methods of analysis HPLC has caused a revolution in biological and pharmaceutical chemistry Approximately two thirds of the publications on HPLC are concerned with problems from this area of life science Biotechnology where it is necessary to isolate substances from complicated mixtures is likely to give further impetus to the dissemination of modern liquid chromatography in columns particularly on the preparative scale This book presents by means of examples the application of HPLC to various fields as well as fundamental discussions of chromatographic methods The quality of the analytical result is decisively dependent on the qualities of the equipment employed by Colin Guiochon and Martin Especially the demands are discussed that are placed on the components of the instrument including those for data acquisition and processing The section on quantitative analysis by ABhauer Ullner covers besides the principles also the problems of ensuring the quality of the data in detail The basic problems arising by enlarging the sample size to preparative dimensions and the requirements put on the apparatus are discussed in the section on preparative applications by Wehrli

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