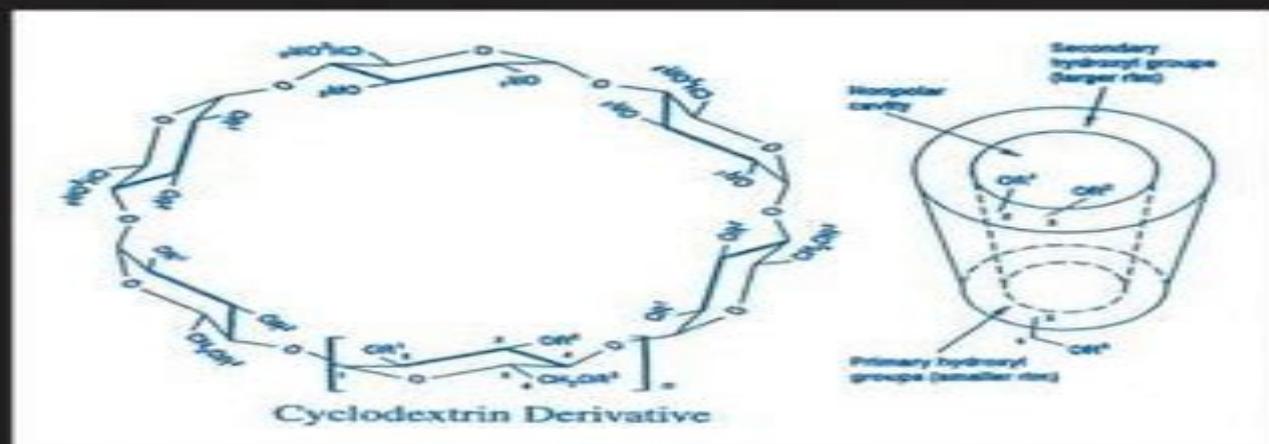


# Chiral Separations by Liquid Chromatography and Related Technologies



Hassan Y. Aboul-Enein  
Imran Ali

# Chiral Separations By Liquid Chromatography And Related Technologies Chromatographic Science Series

**Teresa Kowalska, Joseph Sherma**



## **Chiral Separations By Liquid Chromatography And Related Technologies Chromatographic Science Series:**

Chiral Separations By Liquid Chromatography And Related Technologies Hassan Y. Aboul-Enein, Imran Ali, 2003-06-03

Unique in its systematic and detailed description of the various types structures and properties of chiral stationary phases CSPs and their preparation application and future scope this volume highlights an assortment of liquid chromatographic approaches including sub and super critical fluid chromatography capillary electrochromatography **Planar**

**Chromatography - Mass Spectrometry** Teresa Kowalska, Mieczyslaw Sajewicz, Joseph Sherma, 2015-11-18 Planar

Chromatography Mass Spectrometry focuses on a relatively new approach to chemical analysis in general and to separation science in particular It is the first book to systemically cover the theoretical background techniques instrumentation and practical applications of planar chromatography mass spectrometry as a hyphenated tool of analy **Chiral**

**Chromatography** Thomas E. Beesley, Raymond P. W. Scott, 1999-01-26 Chiral Chromatography Thomas E Beesley Advanced

Separation Technologies Inc Whippany New Jersey USA Raymond P W Scott Chemistry Department Georgetown University Washington DC USA and Chemistry Department Birkbeck College University of London UK Analytical techniques based on separation processes such as chromatography and electrophoresis are finding a growing range of applications in chemical pharmaceutical and clinical laboratories The Wiley Separation Science Series provides the analyst in these laboratories with well focused books covering individual techniques so that they can be applied more efficiently and effectively to contemporary analytical problems The different enantiomers of a drug can exhibit widely different physiological activity in degree and nature As a result the separation and identification of enantiomers is now a very important analytical problem and chiral chromatography is the natural technique to apply to the resolution of such mixtures Chiral Chromatography provides the reader with a basic understanding of the nature of chromatographic separations and relates the principles specifically to the separation of enantiomers The following information is included chiral separations involving both gas and liquid chromatography descriptions of the apparatus used for both techniques detailed discussion on the retention mechanism that results in chiral selectivity the structure and synthesis of a wide range of chirally active stationary phases used in both gas and liquid chromatography preparative applications for large scale purification of enantiomers applications of capillary electrophoresis and capillary electrochromatography In addition to the above a large number of examples of the separation of both commercially and physiologically interesting chiral mixtures are given as is a detailed discussion on the mechanism of selectivity of each example Thomas Beesley was founder and is the CEO for a leading manufacturer of chiral stationary phases and has published papers on TLC HPLC and chiral separations involving cyclodextrins He has also coauthored papers with Daniel W Armstrong an expert on modern cyclodextrin columns Raymond Scott has worked in the field of separation science for over 40 years and has contributed extensively to the development of both gas and liquid chromatography publishing over 160 papers on the subjects **Determination of Target Xenobiotics and Unknown**

**Compound Residues in Food, Environmental, and Biological Samples** Tomasz Tuzimski, Joseph Sherma, 2018-10-25

Xenobiotics are chemical compounds foreign to a given biological system In animals and humans xenobiotics include drugs drug metabolites and environmental pollutants In the environment xenobiotics include synthetic pesticides herbicides and industrial pollutants Many techniques are used in xenobiotics residue analysis the method selected depends on the complexity of the sample the nature of the matrix analytes and the analytical techniques available This reference will help the analyst develop effective and validated analytical strategies for the analysis of hundreds of different xenobiotics on hundreds of different sample types quickly accurately and at acceptable cost

**CRC Handbook of Basic Tables for Chemical Analysis** Thomas J. Bruno, Paris D.N. Svoronos, 2010-12-13 Winner of an Outstanding Academic Title Award for 2011

Researchers in organic chemistry chemical engineering pharmaceutical science forensics and environmental science make routine use of chemical analysis but the information these researchers need is often scattered in different sources and difficult to access The CRC Handbook of Basic Tables

**Thin Layer Chromatography in Phytochemistry** Monika Waksmundzka-Hajnos, Joseph Sherma, Teresa Kowalska, 2008-03-04

Thin layer chromatography TLC is increasingly used in the fields of plant chemistry biochemistry and molecular biology Advantages such as speed versatility and low cost make it one of the leading techniques used for locating and analyzing bioactive components in plants Thin Layer Chromatography in Phytochemistry is the first source

**American Book Publishing Record**, 2004 **Thin Layer Chromatography in Drug Analysis** Lukasz Komsta, Monika Waksmundzka-Hajnos, Joseph Sherma, 2013-12-20

Used routinely in drug control laboratories forensic laboratories and as a research tool thin layer chromatography TLC plays an important role in pharmaceutical drug analyses It requires less complicated or expensive equipment than other techniques and has the ability to be performed under field conditions Filling the need for an up to date complete reference Thin Layer Chromatography in Drug Analysis covers the most important methods in pharmaceutical applications of TLC namely analysis of bulk drug material and pharmaceutical formulations degradation studies analysis of biological samples optimization of the separation of drug classes and lipophilicity estimation The book is divided into two parts Part I is devoted to general topics related to TLC in the context of drug analysis including the chemical basis of TLC sample preparation the optimization of layers and mobile phases detection and quantification analysis of ionic compounds and separation and analysis of chiral substances The text addresses the newest advances in TLC instrumentation two dimensional TLC quantification by slit scanning densitometry and image analysis statistical processing of data and various detection and identification methods It also describes the use of TLC for solving a key issue in the drug market the presence of substandard and counterfeit pharmaceutical products Part II provides an in depth overview of a wide range of TLC applications for separation and analysis of particular drug groups Each chapter contains an introduction about the structures and medicinal actions of the described substances and a literature review of their TLC analysis A useful resource for chromatographers pharmacists analytical chemists students and R D

clinical and forensic laboratories this book can be utilized as a manual reference and teaching source Thin Layer Chromatography in Chiral Separations and Analysis Teresa Kowalska, Joseph Sherma, 2007-06-22 Thin layer chromatography TLC is well suited for performing enantioseparations for research as well as larger scale applications A fast inexpensive and versatile separation technique there are many practical considerations that contribute to its effectiveness Thin Layer Chromatography in Chiral Separations and Analysis is the first book **Recent Advances in Chiral Separations** D. Stevenson, I.D. Wilson, 2012-12-06 This volume represents the proceedings of the second international meeting on chiral separations held at the University of Surrey between the 12th and 15th of September 1989 Like the preceding meeting it was jointly organised by the Chromatographic Society and the Robens Institute of the University of Surrey in response to the continued interest in this area of separation science Of particular interest to the organisers was the very clear change in the nature of the delegates attending this second symposium as compared with the first At the previous meeting the majority of the delegates were composed of chromatographers with problems in the area of chiral separations who were keen to learn as much as possible about these techniques from the handful of recognised experts in this area In this second symposium the divide between expert and novice was much less apparent with the latter providing many interesting and useful contributions to the scientific programme in terms of both oral and poster presentations **Chiral Separations by Capillary Electrophoresis** Ann Van Eeckhaut, Yvette Michotte, 2009-11-11 Covers the Fundamentals of Chiral Separation Available Chiral Selectors and Numerous Applications of Chiral Separation by Capillary Electrophoresis Since the 1980s modern analytical tools have enabled capillary electrophoresis to become a standard part of the chemist's toolkit With contributions from international experts Chiral Separations by **Current Topics in Chirality** Takashiro Akitsu, 2021-09-01 Chirality is a concept related not only to organic chemistry but also to each field of natural science Awareness of hierarchy is important for universal and comprehensive understanding As such this book examines myriad subjects related to chirality in chemistry and interdisciplinary applications In contrast to the previous book this new book about chirality includes contributions from authors in many fields of natural science providing a wider overview The book's focus is chirality and organic chemistry including synthesis and reactions Chiral Separations by HPLC Ante M. Krstulović, 1989 **Chiral Separations** D. Stevenson, I.D. Wilson, 2012-12-06 This volume represents the proceedings of a two day international meeting on chiral chromatography held at the University of Surrey between 3-4 September 1987 The meeting was jointly organized by the Chromatographic Society and the Robens Institute of the University of Surrey in response to the burgeoning interest in this rapidly maturing field of chromatography Nowhere is this interest more evident than in the agrochemical and pharmaceutical industries where the implications of different pharmacological and toxicological activity for the individual enantiomers present in a racemic drug or insecticide is an increasing area of concern Developments in the area of chiral separations are at last beginning to provide Scientists with the necessary tools to study how animals and man handle racemates and relate

their observations to the observed biological effects of these substances The development of robust and simple methods for the separation of enantiomers will therefore have a profound impact on safety evaluation and drug design The meeting proved to be very successful with over 160 delegates from thirteen countries in Europe and America present to learn from the experiences of experts in the field of chiral chromatography and to hear about the latest developments Hopefully in future symposia on chiral separations at the University of Surrey

**Chiral Separations by Liquid Chromatography** Satinder Ahuja, 1991 A definitive reference for researchers working on problems involving chirality Presenting state of the art information this volume covers all the major modes of separation and offers contributions from the leading researchers who developed these techniques Four chapters provide a detailed review of the commonly used columns brush type cyclodextrin polysaccharide carbonate and protein Many of the papers focus on HPLC a technique which is also ideally suited for large scale preparation of optical isomers In addition the volume provides significant discussion on the use of chiral discriminators or selectors

**Handbook of Affinity Chromatography** David S. Hage, Jack Cazes, 2005-07-19 This essential handbook guides investigators in the theory applications and practical use of affinity chromatography in a variety of fields including biotechnology biochemistry molecular biology analytical chemistry proteomics pharmaceutical science environmental analysis and clinical chemistry The Handbook of Affinity Chromatography

**Chiral Separations** Gerhard K. E. Scriba, Bezhn Chankvetadze, 2025-12-24 This fully updated volume focuses on analytical separations by chromatographic and electrophoretic techniques providing some overview along with a multitude of practical applications Examination of the application of sensors for enantiodifferentiation as well as chapters on the analysis of analyte selector complexes by NMR spectroscopy and molecular modeling have been included Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips for troubleshooting and avoiding known pitfalls Authoritative and practical

**Chiral Separations Methods and Protocols** Fourth Edition serves as a helpful guide for analytical chemists working on stereochemical problems in the fields of pharmacy chemistry biochemistry food chemistry molecular biology forensics environmental sciences or cosmetics in academia government or industry

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**Thin Layer Chromatography in Chiral Separations and Analysis** Teresa Kowalska, Joseph Sherma, 2007-06-22 Thin layer chromatography TLC is well suited for performing enantioseparations for research as well as larger scale applications A fast inexpensive and versatile separation technique there are many practical considerations that contribute to its effectiveness Thin Layer Chromatography in Chiral Separations and Analysis is the first book to focus solely on the theory capabilities and applications of TLC for direct and indirect enantioseparations The first part of the book examines the fundamental principles of chirality and TLC It describes the necessary materials laboratory equipment procedures and strategies for the separation quantification isolation and analysis of chiral compounds The second part evaluates the real

world enantioseparations and densitometric analyses Emphasizing pharmaceutical applications the book discusses chiral separation mechanisms and methods for analyzing the chiral purity of diastereoisomers amino acids beta blockers and NSAIDS Topics also include commercial stationary phases and chiral modifiers of mobile phases Thin Layer Chromatography in Chiral Separations and Analysis presents a unified perspective of theory and experimental details underlying the collective developments in the field The book offers scientists in a variety of disciplines and levels of expertise a complete guide to understanding the current and potential applications of chiral TLC *Chiral Separations by Chromatography* Satinder Ahuja, 2000 A large number of examples are given that will assist in the selection of a method including thin layer chromatography capillary electrophoresis and membrane separations This book will be a reliable guide for those just starting out in pharmaceutical and related industries as well as those with experience in the field Jacket

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