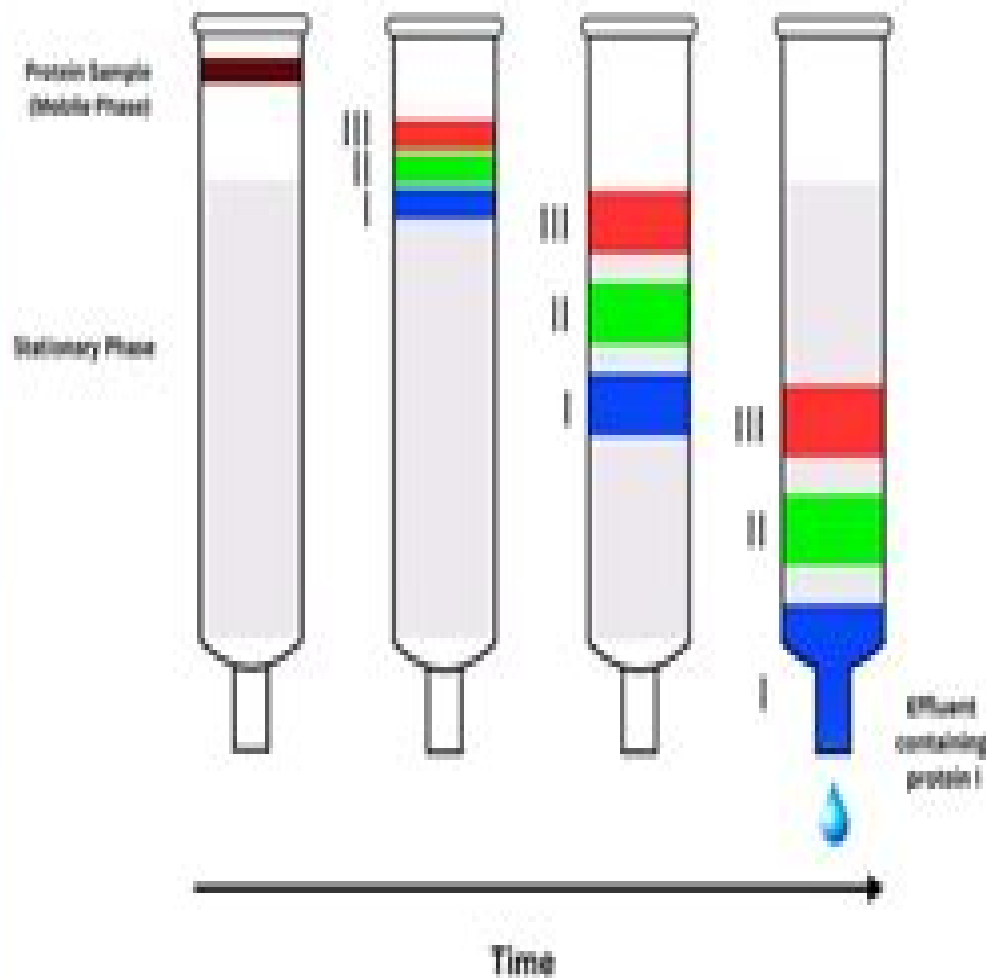


Chromatographic Methods and Techniques



The Practice Of Enantiomer Separation By Capillary Gas Chromatography Chromatographic Methods

Eli Grushka, Nelu Grinberg



The Practice Of Enantiomer Separation By Capillary Gas Chromatography Chromatographic Methods:

The Practice of Enantiomer Separation by Capillary Gas Chromatography Wilfried A. König, 1987

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 Enantiomer Separation Fumio Toda, 2005-01-27 Enantiomer Separation is written by several experts working in modern enantiomer separation chemistry who understand the needs of the many scientific and engineering chemists who need a cost efficient supply of optically active materials of high quality This book contains the following modern practical methods of enantiomer separation Inclusion complexation of a racemic compound with a chiral host compound which gives chiral host chiral guest inclusion compounds from which the chiral guest can be obtained When this separation is combined with distillation technique for example enantiomer separation can be accomplished by fractional distillation in the presence of a chiral host compound This is a modern and green procedure of enantiomer separation These separation methods are described in several chapters of the book Biological separation methods and green methods are covered in two chapters Enantiomer separation by chromatography on a column containing chiral solid phase is one of the most up to date and well known green methods of enantiomer separation Two experts in chromatography have contributed to provide two very important chapters on this method of separation Practical methods of enantiomer separation are important both in the research laboratory and in industry especially in the pharmaceutical fine chemical and electronic industries Chemists and engineers as well as students who are working in the field of chiral compounds in universities institute and industry will find this book an invaluable resource Modified Cyclodextrins for Chiral Separation Weihua Tang, Siu-Choon Ng, Dongping Sun, 2013-05-24 Modified Cyclodextrins for Chiral Separation offers a review of the latest advances in developing modified cyclodextrins as chiral selectors for various chromatographic and electromigration techniques Over the years many descriptions of chiral separation have appeared in academic journals and books but most of them have been devoted to either the development of analytical methods and protocols or the summary of different chiral selectors including cyclodextrins for chiral separation applications This is in marked contrast to this volume which focuses on the research endeavors concerning the development of cyclodextrin derivatives specifically as either chiral mobile phases for capillary electrophoresis or chiral stationary phases for various chromatographic techniques including gas chromatography or high performance liquid chromatography and supercritical fluid chromatography The ongoing thread in this book is the synthesis of structurally defined cyclodextrin derivatives and their applications in enantiomer separation by means of different analytical techniques Modified Cyclodextrins for Chiral Separation is intended for those who are

interested in expanding their knowledge of cyclodextrin chemistry and chiral separation and in what cyclodextrin modification can be made to suit the needs of chiral selectors for different analytical techniques It primarily focuses on the state of the art cyclodextrin chemistry which is the basis for all chiral selectors used in these chiral separation techniques Weihua Tang PhD is a professor at the Key Laboratory of Soft Chemistry and Functional Materials Ministry of Education Nanjing University of Science and Technology China Siu Choon Ng PhD is a professor at the Division of Chemical and Biomedical Engineering School of Chemical and Biomedical Engineering Nanyang Technological University Singapore Dongping Sun PhD is a professor at the Key Laboratory of Soft Chemistry and Functional Materials Ministry of Education Nanjing University of Science and Technology China

Chiral Separation Methods for Pharmaceutical and Biotechnological Products Satinder Ahuja, 2011-03-31 Discusses chiral separations and offers guidance for selecting the optimum method for desired results Chiral separations represent the most intriguing and by some measures most difficult separations of chemical compounds This book provides researchers and students an understanding of chiral separations and offers a convenient route to selecting the best separation method saving considerable time and cost in product development Considering chiral separations in the biotechnological and pharmaceutical industries as well as for food applications Dr Ahuja provides insights into a broad range of topics Opening with a broad overview of chiral separations regulatory considerations in drug product development and basic issues in method development the book Covers a variety of modern methods such as gas chromatography high performance liquid chromatography supercritical fluid chromatography and capillary electrophoresis Deals with the impact of chirality on the biological activity of small and large molecules Provides detailed information on useful chiral stationary phases CSPs for HPLC Includes handy information on selection of an appropriate CSP including mechanistic studies Offers strategies for fast method development with HPLC SFC and CE Discusses preparatory methods utilized in the pharmaceutical industry With in depth discussions of the current state of the field as well as suggestions to assist future developments Chiral Separation Methods for Pharmaceutical and Biotechnological Products is an essential text for laboratory investigators managers and regulators who are involved in chiral separations in the pharmaceutical industry as well as students preparing for careers in these fields

Gas Chromatography Colin Poole, 2012-06-19 A single source of authoritative information on all aspects of the practice of modern gas chromatography from theory to methods to selected applications It also provides access to core data for practical work comparison of results and decision making and facilitates the search for sources in related areas of study

Advances in Chromatography Eli Grushka, Nelu Grinberg, 2014-03-18 Presenting the latest developments in the field for more than four decades the Advances in Chromatography series is relied on by scientists and researchers for the most up to date information on a wide range of chromatographic methods and applications Volume 52 continues this tradition with contributions by established well known chemists offering cutting edge reviews of chromatographic methods with applications in the life

sciences Featured topics include The history development and theory behind aerosol based detectors Protein and peptide biomarkers that are chromatographic endpoints measured in biological fluids and tissues such as serum urine and tissue biopsies Multisegment linear gradient optimization strategy in reversed phase and hydrophilic interaction chromatographic systems Enantioselective gas chromatography performed using three distinct chiral stationary phases based on hydrogen bonding metal ion complexation and inclusion Analysis of the dynamic phenomena of liquid chromatographic systems with six typical reactions in the mobile phase Providing a clear presentation of topics and vivid illustrations for which this series has become known the latest volume makes the material accessible and engaging to analytical biochemical organic polymer and pharmaceutical chemists at all levels of technical skill *Handbook of Methods and Instrumentation in Separation Science*, 2009-11-11 Handbook of Methods and Instrumentation in Separation Science Volume 1 provides concise overviews and summaries of the main methods used for separation It is based on the Encyclopedia of Separation Science The handbook focuses on the principles of methods and instrumentation It provides general concepts concerning the subject matter it does not present specific procedures This volume discusses the separation processes including affinity methods analytical ultracentrifugation centrifugation chromatography and use of decanter centrifuge and dye Each methodology is defined and compared with other separation processes It also provides specific techniques principles and theories concerning each process Furthermore the handbook presents the applications benefits and validation of the processes described in this book This handbook is an excellent reference for biomedical researchers environmental and production chemists flavor and fragrance technologists food and beverage technologists academic and industrial librarians and nuclear researchers Students and novices will also find this handbook useful for practice and learning One stop source for information on separation methods General overviews for quick orientation Ease of use for finding results fast Expert coverage of major separation methods Coverage of techniques for all sizes of samples pico level to kilo level **Chromatographic Enantioseparation** Stig G. Allenmark, 1991 **Practical Gas Chromatography** Katja Dettmer-Wilde, Werner Engewald, 2014-11-05 Gas chromatography continues to be one of the most widely used analytical techniques since its applications today expand into fields such as biomarker research or metabolomics This new practical textbook enables the reader to make full use of gas chromatography Essential fundamentals and their implications for the practical work at the instrument are provided as well as details on the instrumentation such as inlet systems columns and detectors Specialized techniques from all aspects of GC are introduced ranging from sample preparation solvent free injection techniques and pyrolysis GC to separation including fast GC and comprehensive GCxGC and finally detection such as GC MS and element specific detection Various fields of application such as enantiomer food flavor and fragrance analysis physicochemical measurements forensic toxicology and clinical analysis are discussed as well as cutting edge application in metabolomics is covered

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Introduction

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