

Nicola Volpi
Editor

Capillary Electrophoresis of Carbohydrates

From Monosaccharides
to Complex Polysaccharides



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Capillary Electrophoresis Of Carbohydrates From Monosaccharides To Complex Polysaccharides

Nicola Volpi



Capillary Electrophoresis Of Carbohydrates From Monosaccharides To Complex Polysaccharides:

Capillary Electrophoresis of Carbohydrates Nicola Volpi, 2010-10-26 Simple carbohydrates complex oligosaccharides and polysaccharides all belong to a class of ubiquitous macro molecules that exhibit a wide range of biological functions and the recent advent of enhanced enzymatic chemical and analytical tools used to study these sugars has inaugurated a genuine explosion in the field of glycomics Specifically it has led to a deeper understanding of how specific sugar structures modulate cellular phenotypes and that breakthrough has led to the discovery of new pharmaceuticals for the treatment of many serious diseases such as cancer The subsequent rapid expansion of this research holds high promise for future therapeutic regimens and capillary electrophoresis CE refers to the range of related separation techniques that are integral to this vital research CE uses narrow bore fused silica capillaries to separate a complex array of large and small molecules and Capillary Electrophoresis of Carbohydrates offers a comprehensive look at the latest breakthroughs and improvements in CE and CE techniques applied to monosaccharides up to complex oligosaccharides and polysaccharides It begins with an overview of the application of CE and CE mass spectrometric in the analysis of simple carbohydrates without any previous derivatization step before discussing various detection techniques such as spectrophotometric detection electrochemical detection and other less common techniques It then covers in detail an array of related topics and numerous applications It is an essential text for anyone exploring the myriad possibilities of this rapidly expanding field

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Nicola Volpi, 2011-07-21 Simple carbohydrates complex oligosaccharides and polysaccharides all belong to a class of ubiquitous macro molecules that exhibit a wide range of biological functions and the recent advent of enhanced enzymatic chemical and analytical tools used to study these sugars has inaugurated a genuine explosion in the field of glycomics Specifically it has led to a deeper understanding of how specific sugar structures modulate cellular phenotypes and that breakthrough has led to the discovery of new pharmaceuticals for the treatment of many serious diseases such as cancer The subsequent rapid expansion of this research holds high promise for future therapeutic regimens and capillary electrophoresis CE refers to the range of related separation techniques that are integral to this vital research CE uses narrow bore fused silica capillaries to separate a complex array of large and small molecules and Capillary Electrophoresis of Carbohydrates offers a comprehensive look at the latest breakthroughs and improvements in CE and CE techniques applied to monosaccharides up to complex oligosaccharides and polysaccharides It begins with an overview of the application of CE and CE mass spectrometric in the analysis of simple carbohydrates without any previous derivatization step before discussing various detection techniques such as spectrophotometric detection electrochemical detection and other less common techniques It then covers in detail an array of related topics and numerous applications It is an essential text for anyone exploring the myriad possibilities of this rapidly expanding field

Capillary Gel Electrophoresis

Andras Guttman, László Hajba, 2021-12-04 Capillary Gel Electrophoresis and Related Microseparation Techniques covers all theoretical and practical

aspects of capillary gel electrophoresis It also provides an excellent overview of the key application areas of nucleic acid protein and complex carbohydrate analysis affinity based methodologies micropreparative aspects and related microseparation methods It not only gives readers a better understanding of how to utilize this technology but also provides insights into how to determine which method will provide the best technical solutions to particular problems This book can also serve as a textbook for undergraduate and graduate courses in analytical chemistry analytical biochemistry molecular biology and biotechnology courses Covers all theoretical and practical aspects of capillary gel electrophoresis Excellent overview of the key applications of nucleic acid protein and complex carbohydrate analysis affinity based methodologies micropreparative aspects and related microseparation methods Teaches readers how to use the technology and select methods that are ideal for fundamental problems Can serve as a textbook for undergraduate and graduate courses in analytical chemistry analytical biochemistry molecular biology and biotechnology courses

Frontiers in Clinical Drug Research: Anti-Infectives Atta-ur-Rahman, 2016-09-02 Frontiers in Clinical Drug Research Anti infectives is an eBook series that brings updated reviews to readers interested in learning about advances in the development of pharmaceutical agents for the treatment of infectious diseases The scope of the eBook series covers a range of topics including the chemistry pharmacology molecular biology and biochemistry of natural and synthetic drugs employed in the treatment of infectious diseases Reviews in this series also include research on multi drug resistance and pre clinical clinical findings on novel antibiotics vaccines antifungal agents and antitubercular agents Frontiers in Clinical Drug Research Anti infectives is a valuable resource for pharmaceutical scientists and postgraduate students seeking updated and critically important information for developing clinical trials and devising research plans in the field of anti infective drug discovery and epidemiology The second volume of this series features reviews that cover a variety of topics including Identification of nosocomial pathogens and antimicrobials using phenotypic techniques Topical antimicrobials Anti infective drug safety Antimicrobial resistance and much more

Bioprocessing Technology for Production of Biopharmaceuticals and Bioproducts Claire Komives, Weichang Zhou, 2018-11-27 Written for industrial and academic researchers and development scientists in the life sciences industry Bioprocessing Technology for Production of Biopharmaceuticals and Bioproducts is a guide to the tools approaches and useful developments in bioprocessing This important guide Summarizes state of the art bioprocessing methods and reviews applications in life science industries Includes illustrative case studies that review six milestone bio products Discusses a wide selection of host strain types and disruptive bioprocess technologies

The European Polysaccharide Network of Excellence (EPNOE) Patrick Navard, 2012-12-13 This book provides an essential overview of the science of polysaccharides It both approaches polysaccharides as a polymer class and provides detailed descriptions of most major polysaccharides cellulose mannan xylan chitin chitosan cyclodextrins Owing to the multidisciplinary character of the European Polysaccharide Network of Excellence EPNOE the book describes all main

aspects of polysaccharide science and technology biology enzymology physics chemistry materials science and processing Notations and concepts follow a uniform format throughout the whole work in order to create a valuable reference book on the field of polysaccharide science Owing to the major importance of industry in the EPNOE concrete applications are also described in detail *Capillary Electromigration Separation Methods* Colin F. Poole, 2018-04-13 Capillary Electromigration Separation Methods is a thorough encompassing reference that not only defines the concept of contemporary practice but also demonstrates its implementation in laboratory science Chapters are authored by recognized experts in the field ensuring that the content reflects the latest developments in research Thorough comprehensive coverage makes this the ideal reference for project planning and extensive selected referencing facilitates identification of key information The book defines the concept of contemporary practice in capillary electromigration separation methods also discussing its applications in small mass ions stereoisomers and proteins Edited and authored by world leading capillary electrophoresis experts Presents comprehensive coverage on the subject Includes extensive referencing that facilitates the identification of key research developments Provides more than 50 figures and tables that aid in the retention of key concepts

Nanostructures for Antimicrobial Therapy Anton Fici, Alexandru Mihai Grumezescu, 2017-05-29 Nanostructures for Antimicrobial Therapy discusses the pros and cons of the use of nanostructured materials in the prevention and eradication of infections highlighting the efficient microbicidal effect of nanoparticles against antibiotic resistant pathogens and biofilms Conventional antibiotics are becoming ineffective towards microorganisms due to their widespread and often inappropriate use As a result the development of antibiotic resistance in microorganisms is increasingly being reported New approaches are needed to confront the rising issues related to infectious diseases The merging of biomaterials such as chitosan carrageenan gelatin poly lactic co glycolic acid with nanotechnology provides a promising platform for antimicrobial therapy as it provides a controlled way to target cells and induce the desired response without the adverse effects common to many traditional treatments Nanoparticles represent one of the most promising therapeutic treatments to the problem caused by infectious micro organisms resistant to traditional therapies This volume discusses this promise in detail and also discusses what challenges the greater use of nanoparticles might pose to medical professionals The unique physiochemical properties of nanoparticles combined with their growth inhibitory capacity against microbes has led to the upsurge in the research on nanoparticles as antimicrobials The importance of bactericidal nanobiomaterials study will likely increase as development of resistant strains of bacteria against most potent antibiotics continues Shows how nanoantibiotics can be used to more effectively treat disease Discusses the advantages and issues of a variety of different nanoantibiotics enabling medics to select which best meets their needs Provides a cogent summary of recent developments in this field allowing readers to quickly familiarize themselves with this topic area **Nielsen's Food Analysis** B. Pam Ismail, S. Suzanne

Nielsen, 2024-06-24 This sixth edition provides information on techniques needed to analyze foods for chemical and physical

properties The book is ideal for undergraduate courses in food analysis and it is also an invaluable reference for professionals in the food industry General information chapters on regulations labeling sampling and data handling provide background information for chapters on specific methods to determine chemical composition and characteristics physical properties and constituents of concern Methods of analysis cover information on the basic principles advantages limitations and applications The information on food analysis applications has been expanded in a number of chapters that cover basic analytical techniques Instructors who adopt the textbook can contact B Ismail for access to a website with related teaching materials

Handbook of Capillary and Microchip Electrophoresis and Associated Microtechniques James P. Landers, 2007-12-18 Now in its third edition this bestselling work continues to offer state of the art information on the development and employment of capillary electrophoresis With special emphasis on microseparations and microfluidics it features new chapters describing the use of microchip electrophoresis and associated microtechniques with a focus on the extraordinary breadth of work undertaken to expand CE methodologies in recent years Enhanced by contributions from leading international experts the *Handbook of Capillary and Microchip Electrophoresis and Associated Microtechniques Third Edition* remains a seminal reference for the chemistry biology and engineering fields

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