

HANDBOOK OF CAPILLARY ELECTROPHORESIS

Second Edition



Edited by
JAMES P. LANDERS

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1996 12 23

A Gutmann



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book provides the broad knowledge on electromigration techniques including theory of CE description of instrumentation theory and practice in micellar electrokinetic chromatography isotachopheresis capillary isoelectric focusing capillary and planar electrochromatography including description of instrumentation and packed and monolithic column preparation 2D gel electrophoresis including sample preparation and lab on a chip systems The book also provides the most recent examples of applications including food environmental pharmaceutical analysis as well as proteomics **Clinical and Forensic**

Applications of Capillary Electrophoresis John R. Petersen, Amin A. Mohammad, 2001-04-20 Because capillary electrophoresis CE is driving the automation of manual and semi manual techniques conserves precious samples and minimizes the use of hazardous organic chemicals it constitutes a powerful new methodology for the clinical laboratory In **Clinical and Forensic Applications of Capillary Electrophoresis** John R Petersen and Amin A Mohammad along with a panel of leading basic and clinical investigators review those CE methods that are now replacing many routine serum and blood tests in clinical and forensic laboratories Major areas reviewed include the coating of columns the analysis of serum urine and CSF proteins and paraproteins abnormal hemoglobins and hemoglobin Alc peptides amino and organic acids therapeutic drugs drugs of abuse viral load and short tandem repeats STR The methods discussed include capillary zone micellar electrokinetic capillary gel and nonaqueous electrophoresis The authors show how a variety of detection methods UV visible fluorescence and MS can be used in conjunction with CE to detect a broad array of analytes ranging from serum proteins to PCR products to drugs of forensic importance Innovative and highly practical **Clinical and Forensic Applications of Capillary Electrophoresis** demonstrates the power and versatility of CE not only to develop new assays but also to markedly simplify today s clinical and forensic laboratory methodology **Bulletin of the Chemical Society of Japan** Nihon Kagakkai, 1998

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Encyclopedia of Chromatography Jack Cazes, 2009-10-12 Thoroughly revised and expanded this third edition offers illustrative tables and figures to clarify technical points in the articles and provides a valuable reader friendly reference for all those who employ chromatographic methods for analysis of complex mixtures of substances An authoritative source of information this introductory guide to specific chromatographic techniques and theory discusses the relevant science and

technology offering key references for analyzing specific chemicals and applications in industry and focusing on emerging technologies and uses *Advanced Chromatographic and Electromigration Methods in BioSciences* I. Mikšík, F. Tagliaro, E. Tesarová, Z. Deyl, 1998-09-28 This book deals with chromatographic and electrophoretic methods applied for the separation quantitation and identification of biologically relevant compounds It is assumed that the potential reader is familiar with the basics of chromatographic and electromigration methods Individual separation modes are dealt with to an extent which follows their applicability for biomedical purposes liquid chromatography and electromigration methods are therefore highlighted Each chapter is completed with a list of recent literature covering the 1987-1997 period which can be used for further guidance of the reader in his/her own field The chapters have been written by specialists in a particular area and with an emphasis on applications to the biomedical field This implies that theoretical and instrumental aspects are kept to a minimum which allows the reader to understand the text Considerable attention is paid to method selection detection and derivatization procedures and troubleshooting The majority of examples given represent the analyses of typical naturally occurring mixtures Adequate attention is paid to the role of the biological matrix and sample pretreatment and special attention is given to forensic toxicological and clinical applications The book is completed with an extensive Index of Compounds Separated Journal of Capillary Electrophoresis ,2002

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