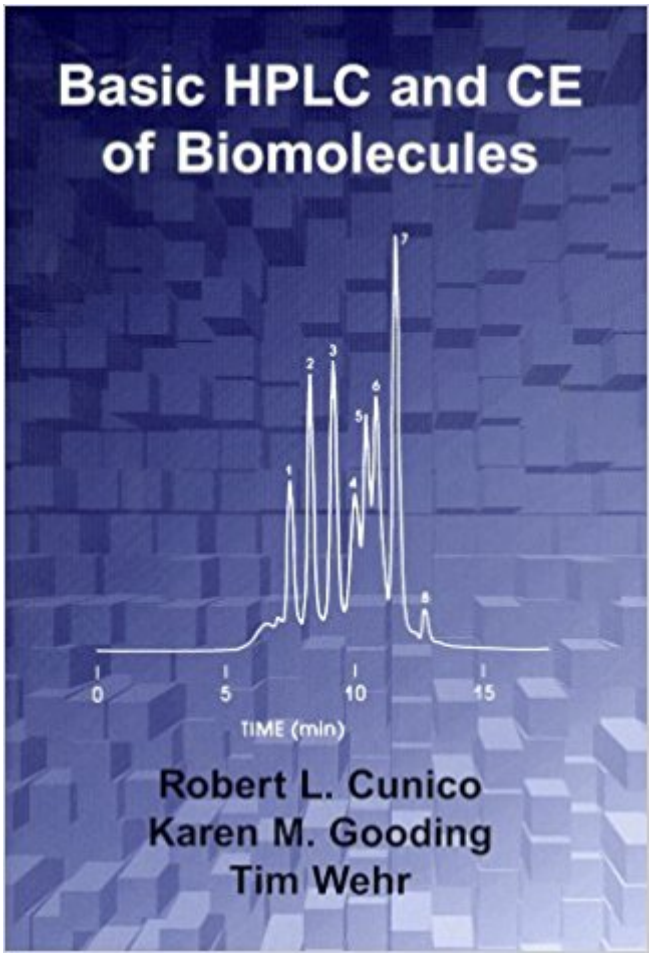
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Basic HPLC And CE Of Biomolecules



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Synopsis

This text provides explanations and examples of the primary chromatographic techniques for biomolecules (reversed-phase, size exclusion, ion-exchange, hydrophobic interaction and affinity). It also offers practical suggestions for their implementation and optimization. An extensive bibliography furnishes a wealth of background information.

Book Information

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"I am delighted to see a combined text that gives a comprehensive treatment of two fundamental approaches to the separation and analysis of proteins. Basic HPLC and CE of Biomolecules is a ready reference with an excellent blend of theory and practical applications, containing an extensive list of references, as might be expected by the authors who are well respected and highly experienced practitioners in this field. The concepts are presented in a concise, logical and thoughtful manner which will assist all chromatographers interested in developing their separation skills." -- Dr. Bill Hancock, Hewlett-Packard Laboratories, March 1998"This book is well written, logically organized, includes the essential details that one should know to practice liquid chromatography and capillary electrophoresis, and has an excellent balance between theory, essential facts, and application of both to a wide variety of separation problems. I am particularly impressed with the wealth of detail, the examples used to illustrate the text, and the degree to which critical literature is cited. The authors years of experience as practitioners and educators in life science separations is clearly evident. I believe this book will be an effective tool to either teach or learn the essentials of liquid chromatography and capillary electrophoresis." -- Dr. Fred Regnier,

Professor of Chemistry, Purdue University, February 1998

Robert L. Cunico holds degrees in chemistry from Colorado State University and San Francisco State University, where he also did postgraduate work. At Varian Associates, he developed HPLC methods, columns and instrumentation for biomolecules and served as the HPLC training manager. Bob then joined the analytical group at Cetus Corporation (now Chiron) where he developed and validated methods for protein therapeutics. In 1991, he founded Bay Bioanalytical Laboratory, Inc., a consulting and contract laboratory serving the biotechnology and biopharmaceutical industry. As president and principal scientist of BBL, Bob has been a contributor to numerous INDs. Karen M. Gooding began her career in the laboratory of Fred Regnier at Purdue University, participating in the original development of columns and techniques for HPLC of proteins. In 1977, Karen and David Gooding founded SynChrom, Inc. specifically for the purpose of developing and manufacturing HPLC columns for protein analysis. As Analytical Director and President of SynChrom, Karen guided efforts in methods development with the express goal of expediting protein analysis. She has published extensively in the chromatography field and has served as an editor of Journal of Chromatography, Trends in Analytical Chemistry, and, with Fred Regnier, of the book, HPLC of Biological Macromolecules: Methods and Applications. Tim Wehr received his Ph.D. in microbial physiology at Oregon State University and did postdoctoral research in molecular biology at UC Berkeley. He managed the HPLC applications lab at Varian Associates for eight years and worked on development of LC columns and HPLC-based analyzers. For the last eight years he directed the CE chemistry R&D group at Bio-Rad Laboratories, developing CE instrumentation, methods, and application kits. He has published extensively in the separation sciences, and served for nine years on the organizing committee of the International Symposium on HPLC of Proteins, Peptides and Polynucleotides.

This book is clearly and understandably written, with concepts that can be reasonably understood by a novice as well as in depth enough for those with a greater understanding of the processes involved. The author clearly knows the subject and presents it in a manner that makes it applicable to multiple disciplines and equipment.I would highly recommend this book.

I love this book. It is a good reference guide for my Chemistry separations class as well as a tool during my research. I recommend this book to anyone with separations involved in their work or research.

This is a book that should be on the desk of anyone who is involved in analytical development of biomolecules and biopharmaceuticals. The content is well organized and written in a format that is easy to grasp and understand. The content covers almost all the different modalities of HPLC analyses and applications and provides real life examples of the techniques. It includes innumerable suggestions on how best to develop a validatable HPLC method and analyze the data appropriately.I would highly recommend this book to both new and old members of biotechnology, especially the developmental, analytical, and quality assurance groups where there is frequently a need to implement a solid reliable method for analyzing biomolecules in a more rational fashion.

This is without a doubt the most brilliant and poignant depiction of HPLC and CE of biomolecules in modern history. My extreme hyperactivity disorder usually means that I'm not able to sit still for such weighty topics--not without large amounts of abused Ritalin; but Cunico's work was so compelling and finely wrought that I found myself spellbound, even when drunk, even when driving in the backseat of a stolen car across the Mexican border at Tecate. I am not going to recommend drinking heavily and stealing cars. But I do recommend BASIC HPLC and CE OF BIOMOLECULES by Robert L. Cunico. By the way, I am extremely drunk right now.

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