Amino Acid Analysis Protocols

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Amino Acid Analysis Protocols

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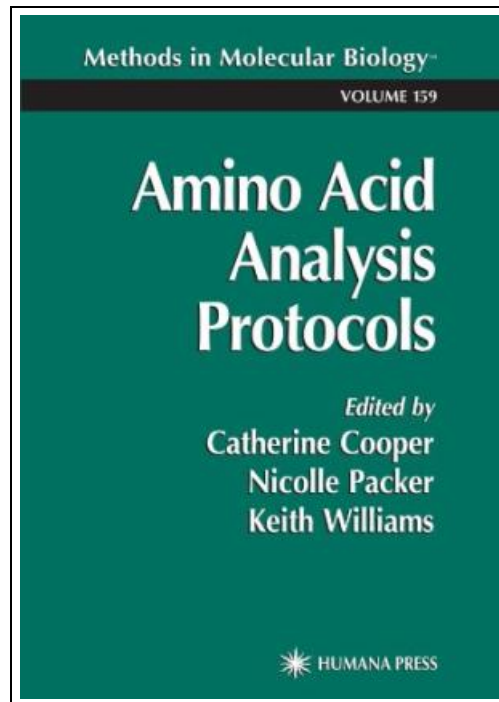**HUMANA PRESS**

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(Desmond Schuster II)

AMINO ACID ANALYSIS PROTOCOLS

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Humana Press Inc., United States, 2010. Paperback. Book Condition: New. 1st ed. Softcover of orig. ed. 2000. 235 x 165 mm. Language: English . Brand New Book ***** Print on Demand *****.Amino acid analysis is a technique that has become commonplace in biotechnology, biomedical, and food analysis laboratories. This book describes a variety of amino acid analysis techniques and how each technique can be used to answer specific biological questions. The first two chapters in Amino Acid Analysis Protocols introduce the concepts, basic theory, and practice of amino acid analysis. The following chapters give detailed instructions on various methods and their applications. As highlighted, there are many different approaches to amino acid ana- sis, but in all cases the results depend heavily on the quality of the sample. Therefore a new way to desalt samples prior to hydrolysis is covered as an introductory chapter (Chapter 3), and most authors have devoted a section to sample preparation, especially to the collection and storage of bodily fluids. Some of the amino acid analysis methods described in this book are based on HPLC separation and analysis after precolumn derivatization. The precolumn derivatization techniques described use (a) 6-aminoquinolyl-N-hydro- succinimidyl carbamate (AQC) (Chapters 4 and 8); (b) 1-fluoro-2- dinitrophenyl-5-L-alanine amide (Marfey s reagent), which allows sepa- tion and analysis of enantiomeric amino acids (Chapter 5); (c) O-phthalal- hyde (OPA) (Chapters 6 and 10); (d) butylisothiocyanate (BITC) and benzylisothiocyante (BZITC) (Chapter 11); (e) phenylisothiocyanate (PITC) (Chapters 12 and 13); (f) ammonium-7-fluorobenzo-2-oxa-1,3-diazole-4-s- fonate (SBD-F) (Chapter 17); and (g) 9-fluorenylmethyl-chloroformate (FMOC-Cl) (Chapter 10).

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