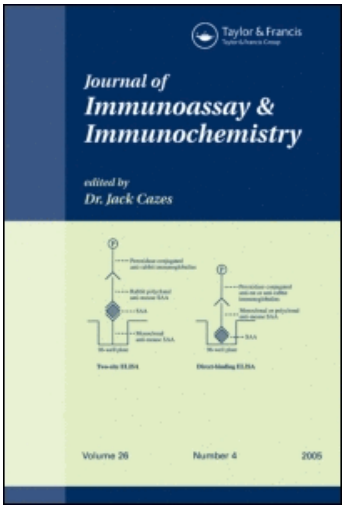

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Production and Characterization of Anti-recombinant Human Erythropoietin (rhEPO) Monoclonal Antibody

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The Book Corner

Proteins, Peptides, and Amino Acids SourceBook, John S. White and Dorothy C. White, Humana Press, Totowa, New Jersey, 2002, 1063 pages. Price: $149.50

Proteins, Peptides and Amino Acids SourceBook is the second in a series of reference books conceived to cover the explosive growth in commercially available biological reagents. The success of the first reference work, *Source Book of Enzymes* published in 1997, encouraged the authors to continue their series. Choosing proteins, peptides, and amino acids as the subject matter for the second volume was simple, given their preeminence in regulating biochemical processes and their importance to modern molecular biology.

Explosive growth in the number of biological reagents available for sale to the research community has significantly complicated the process of finding a particular chemical or locating a suitable replacement for one that is no longer sold. John and Dorothy Chong White have assembled an exhaustive catalog of over 26,000 commercially available proteins, peptides, and amino acids, all arranged alphabetically and by sequence, for fast access, and each replete with technical details and vendor information. Compounds can be easily located by either directly searching the appropriate section by chemical name or by consulting the general index by name, synonym, or derivative formula. Peptides with known sequences may be found alphabetically by basic sequence (no modification) or by consulting the Sequences Index. A glossary of abbreviations and acronyms makes it possible to quickly find compounds by their common names. Once the desired compound is located, the selection of the right product for an application is facilitated by presenting its specific technical data in an easy-to-use format that permits comparison across

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sources. These valuable data cover sequence, sequence modification, chemical derivatives, preparation form, purity, composition, activity, functionality, temperature/pH optima, as well as product notes that list known applications, compound importance, and literature references. The selected compound may then be ordered by using the catalog number provided and the Reagent Suppliers Index.

Comprehensive, reliable, and user-friendly, *Proteins, Peptides and Amino Acids SourceBook* will save busy investigators hours of wasted research time searching through product data bulletins and catalogs. By providing systematic and ample information about each compound, from a global range of suppliers, this exceptional reference tool ensures finding not only the reagent most suited to one's application, but also its nearest geographical supplier. The book has the following features:

a. Encyclopedic comparison of over 26,000 available proteins, peptides, and amino acids;
b. Fully annotated with technical details to ensure selection of the best product for the job;
c. Critical functional information, proven applications, and literature references;
d. Alphabetical listing of 5300 protein products based on 2065 unique molecular compounds;
e. Alphabetical listing of 12,300 peptide products based on 4700 unique sequences;
f. Alphabetical listing of 8400 amino acid products based on 6030 unique molecular compounds;
g. Alphabetical listing of 475 reagent suppliers, brokers, and distributors based in 70 countries;
h. Alphabetical listing of abbreviations and acronyms used around the world; and
i. Complete indexes of peptide sequences and names, synonyms, and derivatives

I am pleased to see that the authors realize that, because of the continuing discovery, development, and commercialization of new reagents and sources, the information in this book will quite naturally become dated. To address this shortcoming, the authors and publishers are committed to updating *Proteins, Peptides and Amino Acids SourceBook* and the *SourceBook* series on a regular basis. They welcome suggestions for corrections and additions to the books. Particularly valued are suggestions for improving the content, readability, accessibility, and organization.

An excellent reference book, which is worth the price of $149.50.

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Table of Contents

Reviewed by
Haleem J. Issaq, Ph.D.
Editor, The Book Corner

Hemoglobin Disorders: Molecular Methods and Protocols, Ronald L. Nagel, Ed., Humana Press, Totowa, New Jersey, 2003, 300 pages. Price: $99.50.

This book is a volume in the "Methods in Molecular Medicine" Series, which is edited by John Walker.

The recent announcement that sickle-cell anemia and thalassemia have been corrected by the transplantation of stem cells bodes well for the future of gene therapy in hemoglobinopathies. In *Hemoglobin Disorders: Molecular Methods and Protocols*, Ronald Nagel, M.D., has assembled a collection of readily reproducible techniques essential to the continued advance of our molecular understanding of these diseases. The book's richly experienced authors detail methods utilizing a wide variety of the latest analytical techniques, including X-ray crystallography, high performance liquid chromatography, electrophoresis, and nuclear magnetic resonance. Additional methods are offered for prenatal diagnostic analysis, the DNA diagnosis of hemoglobin mutations, hemoglobin fluorescence, and the semisynthesis of hemoglobin. Each protocol includes an introduction explaining the basic science, step-by-step instructions for its successful execution, notes on pitfalls to avoid, and tips on how to employ it effectively with novel systems and conditions.

Hemoglobin Disorders: Molecular Methods and Protocols reviews all the basic topics and techniques in this critically important field, and offers today's most comprehensive set of proven protocols for successful experimental and clinical work on hemoglobin diseases. The book has the following features:

a. Cutting-edge experimental and clinical techniques for studying hemoglobin disorders;

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b. State-of-the-art uses of X-ray crystallography, HPLC, electrophoresis, and NMR;
c. Molecular tools for diagnostic analysis of hemoglobin disorders;
d. Step-by-step instructions to ensure successful results;
e. Notes on pitfalls to avoid and using the techniques in novel conditions.

This is a good book to have for those in biomedical research and for bioanalytical chemists.

Table of Contents

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16. Solubility Measurement of the Sickle Polymer, M. E. Fabry, S. A. Acharya, S. M. Suzuka, and R. L. Nagel, (271).

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