

Methods in Enzymology

Volume XVIIIB

***Metabolism of Amino Acids
and Amines***

EDITED BY

Herbert Tabor

AND

Celia White Tabor

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Preface

Volume XVII is designed to provide a comprehensive coverage of the recent enzymological developments in the field of amino acids and amines. With the extensive development of enzymological techniques, the literature concerned with this area has increased rapidly. Due to the large amount of material, it has been necessary to divide Volume XVII into two parts.

The first section of Volume XVIIA includes an extensive description of various microbiological and genetic techniques that have become major tools in the study of amino acid metabolism in recent years. Since there has been a paucity of manuals giving specific details of these methods, we hope that the articles published here will be of considerable value. The remainder of the material is arranged in sections which are in a roughly alphabetical order: alanine to guanido compounds in XVIIA and the remaining amino acids and the amine metabolism sections in XVIIB. The alphabetical arrangement is necessarily arbitrary as there is considerable crossover among the sections, and, in some cases, several amino acids (such as valine, leucine, and isoleucine) are covered together under a single heading (such as branched chain amino acids). We hope that the cross-references at the beginning of each section and in the index will alleviate some of the resultant problems.

Recent methodological developments have involved automated techniques for amino acid analyses. For the most part, these procedures have not been described in this volume since these techniques, as well as a number of other related analytical procedures, have been covered in Volume XI ("Enzyme Structure," C. H. Werner Hirs, ed.).

We wish to thank all of the contributors for their articles and for their many helpful suggestions.

METHODS IN ENZYMOLOGY

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- I. Preparation and Assay of Enzymes
- II. Preparation and Assay of Enzymes
- III. Preparation and Assay of Substrates
- IV. Special Techniques for the Enzymologist
- V. Preparation and Assay of Enzymes
- VI. Preparation and Assay of Enzymes (*Continued*)
Preparation and Assay of Substrates
Special Techniques
- VII. Cumulative Subject Index

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