

G.M. Rothe: **Electrophoresis of Enzymes. Laboratory Methods.** - Springer-Verlag, Berlin - Heidelberg - New York - London - Paris - Tokyo - Hong Kong - Barcelona - Budapest 1994. 307 pp. ISBN 3-540-58114-6.

This laboratory manual covers many practical aspects in the field of electrophoresis of enzymes. This book can serve as a guide for both new and experienced workers in biochemistry, pathology, zoology, botany and in other natural sciences. The book contains seven chapters that review some major problems of the electrophoresis of enzymes. The first introductory chapter deals with the classification, structure and size of enzymes and isoenzymes. The second chapter provides protocols to extract enzymes from their sources. Methods to extract enzymes from cell-organelles of plant and animal tissues are also presented. The third chapter is devoted to reliable electrophoretic procedures in separating native enzymes. Chapter four summarizes methods to renature enzymes after sodium dodecylsulphate electrophoresis, chapter five gives an overview on the histochemical reactions which are used for visualization of enzymes following electrophoresis. In chapter six specific staining protocols for more than 100 different enzymes are listed. In the last chapter we can find the statistical methods. This book compiles facts and methods on classical and modern techniques of enzyme and protein electrophoresis from hundreds of publications. The readers will find here plenty of photographic material, tables and illustrations that can facilitate full understanding of the topic. The book is useful laboratory manual and can be recommended to all enzyme laboratories.

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