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ELECTROPHORESIS IN THE SEPARATION OF BIOLOGICAL MACROMOLECULES

O. Gaal, *Institute of Nutrition, Budapest,* G.A. Medgyesi, *Institute of Haematology and Blood Transfusion, Budapest, and* L. Vereczkey, *Department of Pharmacology, Chemical Works of Gedeon Richter Ltd., Budapest*

Electrophoresis is a method widely used in the analysis of biological macromolecules. Electrophoretic techniques are relatively simple and inexpensive, and some of them can be adapted for routine procedures in the clinical laboratory. This book reviews the methodology of electro-migration techniques. During the approximately forty-year history of modern electrophoresis, a large number of methodological variations have been created. The aim, therefore, has been to outline the principles and practice of the most important variants and to provide representative examples of their application for the study of proteins, nucleic acids, and glycosaminoglycans, but not to survey overall the literature of electrophoresis.

The authors give a critical assessment of the advantages and disadvantages of the individual methods rather than merely presenting a collection of laboratory recipes. Nevertheless, some methods of basic importance are described in detail to enable their reproduction in experimental work. Only essential details are given of specific techniques; for particulars the reader is referred to the original publication. With the chapters on methods of isolating different groups of proteins, nucleic acids, and glycosaminoglycans, the aim has been to demonstrate how the properties of a given group of macromolecules influence the applicability of the separation techniques. In many instances, the choice of method of electrophoretic analysis depends on the technique of isolation and purification of the sample before electrophoresis. These latter steps are important for obtaining reproducible electrophoretic results.

Manufacturers of equipment and chemicals are mentioned only in those instances where this was unavoidable; there is no systematic information provided about sources of equipment or reagents.

426 pages *1980*

GEL CHROMATOGRAPHY

Theory, Methodology, Applications

T. Kremmer, *Department of Biochemistry, National Oncological Institute, Budapest*
L. Boross, *Department of Biochemistry, Jozsef Attila University, Budapest*

This book gives a full review of gel chromatography, including the most recent kinetic and volumetric theories, based on the analogy with the non-miscible polymer solutions and the osmotic properties of gels. In the methodological part are discussed all the practical techniques of gel chromatography, preparation and treatment of gels, equipment, the normal and special devices used in the column, thin-layer chromatography or batch procedures, and so forth. The part on applications contains typical examples for the practical use of gel chromatography, based on the main groups of natural and synthetic compounds as well as inorganic ions to be separated or investigated.

102 pages *1979*

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