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BOOK REVIEW

BIOLOGICAL/BIOMEDICAL APPLICATIONS
OF LIQUID CHROMATOGRAPHY

G.L. Hawk, Ed.

Marcel Dekker, New York, 1979;
hardbound, 736 pages, \$45.00

This book comprises 36 selected papers presented at the Liquid Chromatography Symposium I: "Biological/Biomedical Applications of Liquid Chromatography", held in October 1977 at Boston. The papers principally treat the separation (generally on an analytical scale) of various biological compounds by high pressure liquid chromatography (HPLC) of, e.g., phospholipids, glycolipids; prostaglandins; bacterial lipids; porphyrins; steroids; inhibitors of angiotensin and bradykinin receptors; oligopeptides and amino acids (thus facilitating the study of protein structure and the monitoring of solid phase peptide synthesis); hypothalamic releasing hormones; proteins; nucleic acids, nucleotides, nucleosides and bases (in red blood cells); various enzyme substrates; polysaccharides; pteridines; anticancer drugs; adenine compounds, methotrexate; adiamycin and analogs; carcinogens; nitrosamines, radiopharmaceuticals; xanthines and their metabolites; theophylline in serum; anti-convulsant drugs; procainamide; antibiotics in biological fluids; urinary catecholamines; vitamin D metabolites in serum; hemoglobin components; various other drugs in body fluids. The book ends with alphabetical author and subject indices.

This work is a thesaurus of examples of the variegated biochemical substances that can be monitored (often at extremely low concentrations) by various modes of HPLC. In the introductory chapter Waters proposes an intriguing etymology of the word "chromatography".

The book is highly recommended to all clinical chemists, biochemists and analytical chemists. For more general and technical details of the fundamentals of the methods used, the reader may have advantage in consulting, in conjunction with this book, the work discussed below.

Carel J. van Oss

APPLICATIONS OF HIGH PERFORMANCE

LIQUID CHROMATOGRAPHY

A. Pryde and M.T. Gilbert

Chapman and Hall, London; John Wiley and Sons,
New York, 1979; hardbound, 255 pages

In this excellent monograph the theory and practice of high performance liquid chromatography (a term that has the same initials as, and is used interchangeably with, high pressure liquid chromatography) are treated. The book is divided in five parts: I, Theory and practice of HPLC; II, The application of HPLC in pharmaceutical analysis; III, Application of HPLC in biochemical analysis; IV, Environmental analysis by HPLC; and V, Miscellaneous applications. Part I comprises one of the best elucidations of the theory, practice, and subdivision into seven quite distinct modes, of HPLC. Parts II, III and IV furnish a systematic and well-organized background on the applications of HPLC, that usefully supplements the variegated and detailed applications described in the book edited by Hawk (reviewed above). Part V comprises four more chapters on: miscellaneous plant products, analysis of food products,