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BOOK REVIEW

HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY OF
BIOPOLYMERS AND BIOOLIGOMERS, Parts A and B

O. Mikeš

Elsevier, Amsterdam; New York; 1988, hardbound;
Part A: 375 pages, \$150.00; Part B: 718 pages, \$189.50

The six chapters of Part A (Principles, Materials and Techniques) comprise: 1. Introduction; 2. Theoretical approach to liquid column chromatography and fundamental terminology; 3. Principles of the rapid separation of biopolymers and bio-oligomers; 4. Column packings for HPLC and MPLC of biopolymers and biooligomers; 5. Instrumentation for HPLC and MPLC; 6. Laboratory techniques and working methods. Part B (Separation of Individual Compound Classes) consists of 10 chapters: 7. Proteins and their higher molecular weight fragments; 8. Enzymes; 9. Peptides; 10. Nucleic acids, polynucleotides and oligonucleotides; 11. Polysaccharides and oligosaccharides; 12. Compound biopolymers and biooligomers; 13. Applications of high-performance liquid chromatographic methods in structural studies of biopolymers and biooligomers; 14. Register of biopolymers, biooligomers and oligomeric fragments separated by HPLC or MPLC methods; 15. Bibliography; 16. Prospects for high-pressure and medium-pressure column liquid chromatography of biopolymers and biooligomers. Part A has an alphabetical subject index; Part B has a complete subject index, covering both Parts A and B. Each chapter has its own alphabetical list of references. In addition, Chapters 14 and 15, in combination, provide a long and very useful list of chromatographed substances, their mode of chromatography, the packings used, and the reference of their use.

This is a very thorough work which should serve as an exceedingly useful guide to all who intend to use HPLC in the characterization and/or purification of given biopolymers or oligomers. It should prove to be an indispensable reference in any laboratory where HPLC of these materials is practiced.

Carel J. van Oss