



Chiral Separation Methods for Pharmaceutical and Biotechnological Products

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Chiral Separation Methods for Pharmaceutical and Biotechnological Products From Wiley

Discusses chiral separations and offers guidance for selecting the optimum method for desired results

Chiral separations represent the most intriguing and, by some measures, most difficult separations of chemical compounds. This book provides researchers and students an understanding of chiral separations and offers a convenient route to selecting the best separation method, saving considerable time and cost in product development.

Considering chiral separations in the biotechnological and pharmaceutical industries, as well as for food applications, Dr. Ahuja provides insights into a broad range of topics. Opening with a broad overview of chiral separations, regulatory considerations in drug product development, and basic issues in method development, the book:

- Covers a variety of modern methods such as gas chromatography, high performance liquid chromatography, supercritical fluid chromatography, and capillary electrophoresis
- Deals with the impact of chirality on the biological activity of small and large molecules
- Provides detailed information on useful chiral stationary phases (CSPs) for HPLC
- Includes handy information on selection of an appropriate CSP, including mechanistic studies
- Offers strategies for fast method development with HPLC, SFC, and CE
- Discusses preparatory methods utilized in the pharmaceutical industry

With in-depth discussions of the current state of the field as well as suggestions to assist future developments, *Chiral Separation Methods for Pharmaceutical and Biotechnological Products* is an essential text for laboratory investigators, managers, and regulators who are involved in chiral separations in the pharmaceutical industry, as well as students preparing for careers in these fields.

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Editorial Review

Review

“All chapters are thorough and well written by leading experts in the particular fields. The book provides researchers and students in the field of pharmaceutical sciences with a thorough understanding of chiral separations and offers a convenient route to selecting best chiral separation method.” (*Anal Bioanal Chem*, 2011)

"This is an essential text for analytical and separations scientists in the biotechnological, pharmaceutical, agricultural, and food industries, as well as students." (Laboratory Journal, 22 November 2010)

About the Author

SATINDER (SUT) AHUJA is a recognized expert in the field of chromatography and separations who has published numerous papers and more than a dozen books, including three on chiral separations. As president of Ahuja Consulting, he has advised major pharmaceutical companies in the United States, Europe, and India. He has also taught short courses for ACS and AAPS on chiral separations by chromatography. Recently, Dr. Ahuja chaired a symposium on Chiral Separations at the American Chemical Society meeting in Boston.

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