

Thin Layer Chromatography in Chiral Separations and Analysis (Chromatographic Science Series)



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Thin layer chromatography (TLC) is well suited for performing enantioseparations for research as well as larger-scale applications. A fast, inexpensive, and versatile separation technique, there are many practical considerations that contribute to its effectiveness. Thin Layer Chromatography in Chiral Separations and Analysis is the first book to focus solely on the theory, capabilities, and applications of TLC for direct and indirect enantioseparations.

The first part of the book examines the fundamental principles of chirality and TLC. It describes the necessary materials, laboratory equipment, procedures, and strategies for the separation, quantification, isolation, and analysis of chiral compounds. The second part evaluates the real-world enantioseparations and densitometric analyses. Emphasizing pharmaceutical applications, the book discusses chiral separation mechanisms and methods for analyzing the chiral purity of diastereoisomers, amino acids, beta-blockers, and NSAIDS. Topics also include commercial stationary phases and chiral modifiers of mobile phases.

Thin Layer Chromatography in Chiral Separations and Analysis presents a unified perspective of theory and experimental details underlying the collective developments in the field. The book offers scientists in a variety of disciplines and levels of expertise a complete guide to understanding the current and potential applications of chiral TLC.



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