

Chirality in drug research / edited by Eric Francotte and Wolfgang Lindner

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Abstrak

Divided into the three main sections of synthesis, analysis and drug development, this handbook covers all stages of the drug development process, including large-scale synthesis and purification of chirally pure pharmaceuticals.

In the first section, the isolation of chiral drugs from natural sources, their production in enzymatic processes and the resolution of racemic mixtures in preparative chromatography are outlined in separate chapters. For the section on qualitative and quantitative analysis, enantioselective chromatographic methods are presented as well as optical methods and CE-MS, while the final section deals with the pharmacology, pharmacokinetics and metabolic aspects of chiral drugs, devoting whole chapters to stereoselective drug binding and modeling chiral drug-receptor interactions.