

1. Record Nr.	UNINA9910784017303321
Autore	Wellings Donald A
Titolo	A practical handbook of preparative HPLC [[electronic resource] /] / Donald A. Wellings
Pubbl/distr/stampa	Oxford, : Elsevier, 2006
ISBN	1-280-63005-1 9786610630059 0-08-045885-8
Descrizione fisica	1 online resource (193 p.)
Disciplina	543.84
Soggetti	High performance liquid chromatography Liquid chromatography
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; copyright; Contents; front matter; Preface; Foreword; Abbreviations; body; 1 The history and development of preparative HPLC; 2 Fluid dynamics, mass transport and friction; 3 Modes of chromatographic separation; Particle size; Pore structure, size and surface area; 3.1 Normal phase chromatography; 3.2 Reversed phase chromatography; 3.3 Chiral separations; Chirality; Optical purity; Separation of enantiomers; 3.4 Ion exchange chromatography; 3.5 Exclusion chromatography; 3.6 Affinity chromatography; 4 How to get started; 4.1 Packing a column; Column packing protocol for column type 1 Slurry concentration Slurry and column preparation; Column packing protocol for column type 2; 4.2 What and where!; 4.3 Product recovery; 4.4 Productivity; 5 Process development and optimization; 5.1 Sample self displacement for purification of a peptide; Analytical HPLC; Gradient selection; Loading study; Flow rate optimization; 5.2 Boxcar injections for chiral separations; 6 Documentation and record keeping; 6.1 Equipment qualification; 6.2 Process documentation; back matter; Appendices; PROCESS INSTRUCTIONS; CONTENTS; DEVIATION SHEET; OPERATION 1 PREPARATION SECTION; 1.01 Abbreviations 1.02 Target Specifications 1.03 Raw Materials; 1.04 Equipment; 1.05 Consumables; 1.06 In-Process Tests; Analytical HPLC Conditions;

Analytical HPLC Strength Method; 1.07 Ancillary SOPs; 1.08 Cleaning; 1.09 Personnel and Responsibilities; 1.10 Safety; Safety Precautions; OPERATION 2 PRE-PURIFICATION COLUMN PREPARATION; OPERATION 3 PURIFICATION; PURIFICATION DEVIATION SHEET; EXAMPLE OF FRACTION RECONCILIATION DOCUMENT; OPERATION 1 SUMMARY; References; CHAPTER 1; CHAPTER 2; CHAPTER 3; CHAPTER 4; CHAPTER 5; CHAPTER 6; Index

Sommario/riassunto

This book is a distillation of twenty years of practical experience of the high pressure liquid chromatography (HPLC) process. Deliberately steering clear of complex theoretical aspects, this book concentrates on the everyday problems associated with the technique, making it perfect for frequent use in the laboratory and for those in the pharmaceutical, agrochemical and biotechnology industries for the analysis and purification of drugs, small molecules, proteins and DNA. This book...Provides practical, hands-on advice based on years of experienceWill help ensure optimal design,
