Record Nr. UNINA9910676633003321 HPLC for pharmaceutical scientists [[electronic resource] /] / edited by **Titolo** Yuri Kazakevich, Rosario LoBrutto Pubbl/distr/stampa Hoboken, N.J.,: Wiley-Interscience, c2007 **ISBN** 1-280-72166-9 9786610721665 0-470-08795-1 0-470-08794-3 Descrizione fisica 1 online resource (1136 p.) Altri autori (Persone) KazakevichYuri LoBruttoRosario Disciplina 615.19 615.1901 615/.1901 Soggetti High performance liquid chromatography Drugs - Analysis Clinical chemistry 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 indexes. HPLC FOR PHARMACEUTICAL SCIENTISTS: CONTENTS; PREFACE: Nota di contenuto CONTRIBUTORS; PART I HPLC THEORY AND PRACTICE; 1 Introduction; 1.1 Chromatography in the Pharmaceutical World; 1.2 Chromatographic Process; 1.3 Classification; 1.4 History of Discovery and Early Development (1903-1933); 1.5 General Separation Process; 1.5.1 Modern HPLC Column: 1.5.2 HPLC System: 1.6 Types of HPLC: 1.6.1 Normal-Phase Chromatography (NP HPLC); 1.6.2 Reversed-Phase HPLC (RP HPLC or RPLC); 1.6.3 Ion-Exchange Chromatography (IEX); 1.6.4 Size-Exclusion Chromatography (SEC); 1.7 HPLC Descriptors (Vr. k, N, etc.) 1.7.1 Retention Volume1.7.2 Void Volume; 1.7.3 Retention Factor; 1.7.4 Selectivity; 1.7.5 Efficiency; 1.7.6 Resolution; References; 2 HPLC Theory; 2.1 Introduction; 2.2 Basic Chromatographic Descriptors; 2.3 Efficiency; 2.4 Resolution; 2.5 HPLC Retention; 2.6 Retention

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## Sommario/riassunto

HPLC for Pharmaceutical Scientists is an excellent book for both novice and experienced pharmaceutical chemists who regularly use HPLC as an analytical tool to solve challenging problems in the pharmaceutical industry. It provides a unified approach to HPLC with an equal and balanced treatment of the theory and practice of HPLC in the pharmaceutical industry. In-depth discussion of retention processes, modern HPLC separation theory, properties of stationary phases and columns are well blended with the practical aspects of fast and effective method development and method validation. Pr