1. Record Nr. UNINA9910829015203321 Autore Westermeier Reiner **Titolo** Electrophoresis in practice: a guide to methods and applications of DNA and protein separations / / Reiner Westermeier Weinheim, Germany:,: Wiley-VCH Verlag,, 2016 Pubbl/distr/stampa **ISBN** 3-527-69516-8 3-527-69518-4 Edizione [Fifth edition.] Descrizione fisica 1 online resource (532 pages) Classificazione 433.4 547.7/04572 Disciplina 543/.4 Soggetti Electrophoresis **DNA** - Separation Proteins - Separation Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Includes bibliographical references and index Nota di bibliografia Includes bibliographical references at the end of each chapters and index. Nota di contenuto Title Page; Copyright; Table of Contents; Foreword; Abbreviations, Symbols, Units: Preface: German Version: English Version, Fifth Edition: Part I: Fundamentals; Chapter 1: Electrophoresis; 1.1 General; 1.2 Electrophoresis in Nonrestrictive Gels; 1.3 Electrophoresis in Restrictive Gels; References; Chapter 2: Isotachophoresis; 2.1 Migration with the Same Speed; 2.2 "Ion Train" Separation; 2.3 Zone Sharpening Effect; 2.4 Concentration Regulation Effect; 2.5 Quantitative Analysis; References; Chapter 3: Isoelectric Focusing; 3.1 Principles; 3.2 Gels for IEF; 3.3 **Temperature** 3.4 Controlling the pH Gradient; 3.5 Kinds of pH Gradients; 3.6 Protein Detection in IEF Gels; 3.7 Preparative Isoelectric Focusing; 3.8 Titration Curve Analysis; References; Chapter 4: High-Resolution Two-Dimensional Electrophoresis; 4.1 IEF in Immobilized pH Gradient Strips; 4.2 SDS-PAGE; 4.3 Proteomics; References; Chapter 5: Protein Sample Preparation: 5.1 Protein Quantification Methods: 5.2 Preparation of Native Samples; 5.3 Samples for SDS Electrophoresis; 5.4 Samples for

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