

1. Record Nr.	UNINA9911019980103321
Titolo	Enzyme assays : high-throughput screening, genetic selection, and fingerprinting / / edited by Jean-Louis Reymond
Pubbl/distr/stampa	Weinheim, Germany, : Wiley-VCH, c2006
ISBN	9786610854288 9781280854286 1280854286 9783527607846 3527607846 9783527607211 3527607218
Descrizione fisica	1 online resource (388 p.)
Altri autori (Persone)	ReymondJean-Louis
Disciplina	572.76
Soggetti	Enzymes - Analysis
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	Enzyme Assays; Contents; Preface; List of Contributors; Introduction; Enzyme Assays; Part I: High-throughput Screening; Part II: Genetic Selection; Part III: Enzyme Fingerprinting; Enzyme Assays in Other Areas; How to Use this Book; Part I High-throughput Screening; 1 Quantitative Assay of Hydrolases for Activity and Selectivity Using Color Changes; 1.1 Overview; 1.2 Direct Assays Using Chromogenic Substrates; 1.3 Indirect Assays Using Coupled Reactions - pH Indicators; 1.3.1 Overview of Quantitative Use of pH Indicator Assay; 1.3.2 Applications 1.3.2.1 Searching for an Active Hydrolase (Testing Many Hydrolases Toward One Substrate)1.3.2.2 Substrate Mapping of New Hydrolases (Testing Many Substrates Toward Hydrolase); 1.3.3 Comparison with Other Methods; 1.4 Estimating and Measuring Selectivity; 1.4.1 Estimating Selectivity without a Reference Compound; 1.4.2 Quantitative Measure of Selectivity Using a Reference Compound (Quick E and Related Methods); 1.4.2.1 Chromogenic Substrate; 1.4.2.2 pH Indicators; 1.4.3 Application; 1.4.3.1 Substrate Mapping of Hydrolases;

1.4.3.2 Screening of Mutants in Directed Evolution
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2.11 Assay Based on Surface-enhanced Raman Scattering2.12 Conclusions; References; 3 High-throughput Screening Methods Developed for Oxidoreductases; 3.1 Introduction; 3.2 High-throughput Methods for Various Oxidoreductases; 3.2.1 Dehydrogenases; 3.2.1.1 Colorimetric Screen Based on NAD(P)H Generation; 3.2.1.2 Screens Based on NAD(P)H Depletion; 3.2.2 Oxidases; 3.2.2.1 Galactose Oxidase; 3.2.2.2 D-Amino Acid Oxidase; 3.2.2.3 Peroxidases; 3.2.3 Oxygenases; 3.2.3.1 Assays Based on Optical Properties of Substrates and Products
3.2.3.2 Assays Based on Gibbs' Reagent and 4-Aminoantipyrine

Sommario/riassunto

Edited by one of the leading experts in the field, this book fills the need for a book presenting the most important methods for high-throughput screenings and functional characterization of enzymes. It adopts an interdisciplinary approach, making it indispensable for all those involved in this expanding field, and reflects the major advances made over the past few years. For biochemists, analytical, organic and catalytic chemists, and biotechnologists.