

<<微生物工艺过程开发MICROBI>>

图书基本信息

书名：<<微生物工艺过程开发MICROBIAL PROCESS DEVELOPMENT>>

13位ISBN编号：9789810215156

10位ISBN编号：9810215150

出版时间：1994-12

出版时间：中国矿大出版社

作者：Doelle, Horst W.

页数：308

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

<<微生物工艺过程开发MICROBI>>

书籍目录

PREFACE INTRODUCTION: SCOPE AND APPLICATION

chapter 1: MICROBIAL TYPES AND TECHNOLOGY

1 Microbial Types 1.1 Prokaryotes 1.2 Eukaryotes 1.2.1 Algae 1.2.2 Yeast 1.2.3 Fungi

2. Microbial Technology 2.1 Microbial Biochemistry Concept 2.2 Chemical Engineering Concept

chapter 2: PROCESS DEVELOPMENT STRATEGIES

1. Introduction 2. Isolation, identification and initial selection of microbial strains 3. Determination of optimal nutrition temperature and oxygen supply 4. Modification of the genetic structure to increase product formation 5. Cell Cultivation systems 6. Present state and future development

Chapter 3 : ISOLATION, CHARACTERIZATION, AND IDENTIFICATION OF MICROORGANISMS

1. Introduction 2. Isolation 2.1 Chemical methods 2.2 Physical methods 2.3 Biological methods 2.4 Toxic agents and pretreatments 3. Systematics 4. Characterization 4.1 Phenotypic characterization 4.2 Numerical analysis 4.3 Chemotaxonomy 4.4 Molecular taxonomy 5. Nomenclature 6. Identification

Chapter 4: MAINTENANCE AND PRESERVATION OF MICROBIAL CULTURES

1. Introduction 2. Stock culture maintenance 3. Preservation methods 3.1 Choice of method 3.2 Stages in preservation methods 3.3 Preservation suspension media 3.4 Freezing methods 3.5 Drying methods 3.6 Freeze-drying 4. Culture collection management 4.1 Culture accession 4.2 Preservation programme 4.3 Quality control 4.4 Shipment of cultures 5. Culture collection resources and services

Chapter 5: BACTERIAL GENETICS

1. Introduction 2. Bacterial genome 3. Mutation 3.1 Consequence and expression of mutation 3.2 DNA repair mechanisms 3.2.1 Excision repair 3.2.2 Photoreactivation 3.2.3 Recombination repair 4. Gene transfer mechanisms 4.1 Bacterial transformation 4.1.1 Natural transformation in gram positive cells 4.1.2 Natural transformation in gram negative cells 4.2 Bacterial conjugation 4.3 Bacterial transduction 4.3.1 Generalized or non-specialized transduction 4.3.2 Specialized or restricted transduction 5. Genetical engineering 5.1 Gene cloning 5.1.1 Production of DNA fragments 5.1.1.1 Mechanical methods 5.1.1.2 Restriction endonucleases 5.1.1.3 DNA-modifying enzymes

Chapter 6 : CELL THERMODYNAMICS

Chapter 7: GROWTH AND CULTIVATION

Chapter 8: CELL METABOLISM AND METABOLIC REGULATION

Chapter 9: PRODUCT FORMATION

Chapter 10: DOWNSTREAM PROCESSING AND WASTE UTILIZATION

Chapter 11: MICROBIAL PROCESS STRATEGIES FOR A SUSTAINABLE DEVELOPMENT

Chapter 12: ADDITIONAL READING LIST INDEX

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>