

The Complete Book on Biotechnology Based Bulk Drugs

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Biotechnology has played an essential role in the development of the healthcare chemical industries. The range of product includes diagnostic, prophylactic and therapeutic agents. The discovery of a potentially active compound starts a sequence of exhaustive chemical and biological testing that may culminate in manufacture of the agent or an improved analog. The role of biotechnology in this complex path to regulatory approval and marketing is diverse. Biotechnology is a field of applied biology that involves the use of living organisms and bioprocesses in engineering, technology, medicine and other fields requiring bio products. Biotechnology also utilizes these products for manufacturing purpose. Some of the examples of drugs produced through biotechnology are penicillin, lincomycin, streptomycin, tylosin, peptide antibiotics, cephalosporins, etc. Modern use of similar terms includes genetic engineering as well as cell and tissue culture technologies. Biotechnology draws on the pure biological sciences and in many instances is also dependent on knowledge and methods from outside the sphere of biology. Conversely, modern biological sciences are intimately entwined and dependent on the methods developed through biotechnology and what is commonly thought of as the life sciences industry. The development of biotechnology is taking place in almost all fields of human life. The recent advances in the field of basic genetics have opened up new vistas, potentials and possibilities.

Some of the fundamentals of the book are the pharmaceutical industries, marketing strategy, common features in the evolution of products and processes, process technology fermentation, product recovery, new trends in biotechnology, penicillins, biosynthesis and regulation of thienamycin, olivanic acids and epithienamycins, aminoglycoside antibiotics, streptidine and deoxystreptamine, streptomycin, neomycin, paromomycin, ribostamycin and butirosin gentamicin, micronomicin and sisomicin, tylosin, peptide antibiotics, current applications of peptides, blasticidin S: an agricultural antibiotic bleomycin and bestatin: peptides used in anticancer therapy etc.

The present book contains process of biotechnology based bulk drugs like penicillin, B lactam antibiotics, aminoglycoside antibiotics, peptide antibiotics, anti cancer agents, lincomycin etc. This is very resourceful book for entrepreneurs, technocrats, research scholars, libraries etc.

Contents

CHAPTER 1

INTRODUCTION

The Pharmaceutical Industries

Marketing Strategy

Common Features in the Evolution of Products and Processes

Process Technology

Fermentation

Product Recovery

New Trends in Biotechnology

CHAPTER 2

PENICILLINS

Historical Perspective History

Biosynthetic Penicillins

Process Overview

Fermentation Technology

The Culture: Strain Development

Mutation

Selection

Genetics

Fermentation Process : Flow Sheet

Facilities

Inoculum Development

Fermentation Stage: Medium

Process Control

Physiological Variables and Their Effect on Product Formation

Duration of the Fermentation

Recovery of Penicillin

Carbon Process (Obsolete)

Solvent Extraction Process (Industry Standard)

Process Overview

Filtration

Solvent Extraction

Carbon Treatment

Further Extraction

Crystallization

Drying

Further Processing

Penicillin Acid Process (State of the Art)

Semisynthetic Penicillins

6-Aminopenicillanic Acid

Enzymic Cleavage of Penicillins to Yield 6-Aminopenicillanic Acid

Chemical Preparation of 6-Aminopenicillanic Acid

Synthesis of Clinically Useful Penicillins and Closely Related Congeners

Automation

Process Economics

Costs

CHAPTER 3

NOVEL β -LACTAM ANTIBIOTICS

Thienamycin

Discovery

Chemistry

Pharmacological Activity

Chemical Synthesis

Biosynthesis and Regulation of Thienamycin

Biosynthesis

Regulation
Classical Fermentation Process
Introduction
Seed Stages
Production Stage
Fermentation Process Development
Strain Improvement
Fed-Batch Techniques
Synthetic Media
Novel Fermentation Processes
Ultrafiltration Coupled Fermenter
Immobilized Cells
Thienamycin Purification
Future Prospects
Market Projections
Clavulanic Acid
Introduction
Production
Market
Olivanic Acids and Epithienamycins
Nocardicins
Introduction
Production of Nocardicin A
Market Projections
Monobactams

CHAPTER 4

AMINOGLYCOSIDE ANTIBIOTICS

Streptidine and Deoxystreptamine
Streptomycin
Neomycin, Paromomycin, Ribostamycin and Butirosin
Gentamicin, Micronomicin and Sisomicin
Fortamine and Fortimicins
Mutasynthesis
A-Factor
Metabolic Grid
Manufacture
Fermentation
Microorganisms
Equipment
Inoculum Development
Media
Procedures
Isolation
Strain Improvement

CHAPTER 5

TYLOSIN

Production Technology
Structure of Tylosin and Related Compounds
Biosynthetic Pathway
Growth of Producer Microorganisms
Product Recovery and Purification

Product Development
Development in the Genetic Improvement of Producing Strains
Developments in Fermentation Technology

CHAPTER 6

PEPTIDE ANTIBIOTICS

Current Applications of Peptides
Blasticidin S : an Agricultural Antibiotic
Bleomycin and Bestatin: Peptides used in Anticancer Therapy
Cyclosporin: an Immunosuppressor
Structural Types of Peptides
Biosynthesis of Peptide Antibiotics
Ribosomal and Nonribosomal Mechanisms
Reactions Involved in Enzymatic Peptide Formation
Carboxyl Activation
Peptide Bond Formation
Modification Reactions
Production of Peptides
Screening Methods
Biotechnological Production Methods
Improvements and Modification Procedures
Compilation of Peptides
Abbreviations Used in the Table
Alternative Names and Synonyms Compounds Listed in the Table
Appendix

CHAPTER 7

STREPTOMYCIN AND COMMERCIALY IMPORTANT AMINOGLYCOSIDE ANTIBIOTICS

Generalities on Aminoglycoside Antibiotics
Historical Background
Structure of Different Classes of Aminoglycoside Antibiotics
Microbiological Activity and Clinical use
Mode of Action
Problems with Toxicity and Bacterial Resistance
Toxicity
Bacterial Resistance
Streptomycin
Generalities
Physicochemical Properties
Assay and Identification Methods
Assay Methods
Identification Methods
Biosynthesis
Production Technology
Fermentation
Product Recovery
Other Major Aminoglycoside Antibiotics
Screening and Genetic Engineering of Strains for New Aminosides
Screening of new strains
Use of Idiopathic Mutants
Structural Modification of Known Aminosides
Hemisynthesis
Bioconversion

Chemical Synthesis of New Aminosides
Streptothricins, Aminoglycoside-like Antibiotics
Structure
Physicochemical and Biological Properties
Production by Fermentation and Isolation
Uses
Marketing Prospects

CHAPTER 8

CEPHALOSPORINS

Mode of Action of Cephalosporins
Structure and Biosynthesis of Bacterial Cell Wall
Sensitivity and Resistance
Structure/Activity Relationships
Cephalosporin Market
Biosynthesis of Cephalosporins
Biosynthesis Pathway
Regulation of Cephalosporin Biosynthesis
L-Valine
Cysteine
Effect of Oxygen Tension
Catabolite Repression
Specific Growth Rate
Fermentation Process
The Fermenter-Its Design and Instrumentation
Fermentation Microbiology
Production Kinetics
Strain Development
Fermentation Development
Alternative Process-DAC Process
Recovery Process
Purification of Cephalosporin C
Cleavage of Cephalosporin C to 7-ACA

CHAPTER 9

COMMERCIAL PRODUCTION OF CEPHAMYCIN ANTIBIOTICS

Cephamicin Product Description
Discovery
Mode of Action
Cefoxitin
Physicochemical Characteristics
Cephamicin C Assay Techniques
Fermentation Microbiology
Introduction
Metabolic Origins
Carbon Metabolism
Nitrogen Metabolism
Sulfur Metabolism
Phosphate Metabolism
Cephamicin Production Technology
Inoculum Development Stage
Antibiotic Production Stage

Isolation and Purification Stage
Conclusions and Implications

CHAPTER - 10

LINCOMYCIN

Discovery

Chemistry

Spectrum

Mode of Action

Lincomycin Assays for Fermentation Development and Production

Production Technology

Lincomycin Biosynthesis

Fermentation

Lincomycin Production by Other Actinomyces Species

Fermentation Power Requirements

Isolation

Chemical Derivatives of Lincomycin

Commercial Markets

Current Manufacturers

Product Outlook

CHAPTER 11

PHARMACOLOGICALLY ACTIVE AND RELATED MARINE MICROBIAL PRODUCTS

Pharmacologically Active Compounds From Marine Microorganisms

Products From the Culture of Microalgae in Coastal Ponds

Agricultural Applications

Conclusions

CHAPTER - 12

ANTICANCER-AGENTS

The Drug Development Process

Market Information

Containment Technology for Cytotoxic Agents

Containment of Process Equipment

Personnel Protection

Decontamination of Waste Streams

Microbial Process Examples

Fermentation Processes for Production of Anthracyclines

Strain Improvement

Batch Fermentation Processes

Isolation and Purification

Fermentation Processes for Production of Nucleosides

Strain Improvement

Batch Production Process

Therapeutic Enzymes

Batch and Continuous Fermentation Processes

Isolation and Purification

Examples of Products of Mammalian Cells in Culture

Interferon Production

Fibroblast Processes (HuIFN- β)

Leukocyte Processes (HuIFN- α)

Lymphoblastoid Processes (Hu Ly, IFN)

Immune Interferon Processes (HuIFN-Y)

CHAPTER 13

SIDEROPHORES

The Need for Iron-Solubilizing Agents

The Role of Siderophores

Uptake and Release of Iron from the Siderophore Complex

Production of Siderophores

Conditions for Siderophore Production

Extraction

Adsorption

Ion-exchange Chromatography

Restricted Growth

Protein Binding of Contaminant Iron

Range of Molecular Structures

Hydroxamates

Catecholates (sometimes referred to as phenolates)

Siderophores with Antibiotic Activity

Sideromycins

Interference with Iron Uptake

Siderophore Analogues

Sideromycins

Extraction and Purification of Siderophores

Mycobactin

Enterochelin

Ferrichrome

Commercial Production of Desferrioxamine B (Desferal)

Uses of Siderophores

Iron Metabolism in the Body

Iron Poisoning and Chelation Therapy

Haemochromatosis and Chelation Therapy

Chelation Therapy

Other Medical Application for Siderophores

Applications for Siderophores Outside Medicine

Future Trends

CHAPTER 14

STEROID FERMENTATIONS

Bioconversions of Practical Importance

Bioconversions of Limited or Potential Practical Importance

Progesterone Side Chain Cleavage

Ring A Aromatization

17 and 21-Hydroxylations

Alternative Bioconversion Methods

Sterol Degradation

Steroid Solubility

Methods of Steroid Addition

Steroid Conversion in Organic Solvents

Future Trends in Steroid Bioconversions

Recovery of Steroids

Split Process
Whole-beer Process
Cake-extraction Process
Products of Commercial Importance
Summary

CHAPTER 15
RODUCTS FROM RECOMBINANT DNA
Production Technology
Methods for Cloning and Expression
Range and Relative Advantages of Host Microorganisms
Stability of Strains and Plasmids
Product Recovery and Purification
Commercial Markets
Markets for Recombinant Products

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