

Drugs & Pharmaceutical Technology Handbook

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Drugs and pharmaceutical industry plays a vital role in the economic development of a nation. It is one of the largest and most advanced sectors in the world, acting as a source for various drugs, medicines and their intermediates as well as other pharmaceutical formulations. India has come a long way in this field, from a country importing more than 95% of its requirement of drugs and pharmaceuticals; India now is exporting it even to developed countries. Being the intense knowledge driven industry, it offers innumerable business opportunities for the investors/ corporate the world over. The existence of well defined and strong pharmaceutical industry is important for promoting and sustaining research and developmental efforts and initiatives in an economy as well as making available the quality medicines to all at affordable prices. That is, it is essential to improve the health status of the individuals as well as the society as a whole, so that positive contributions could be made to the economic growth and regional development of a country. On the global platform, India holds fourth position in terms of volume and thirteenth position in terms of value of production in pharmaceuticals. The pharmaceutical industry has been producing bulk drugs belonging to all major therapeutic groups requiring complicated manufacturing processes as well as a wide range of pharmaceutical machinery and equipments. The modern Indian Pharmaceutical Industry is recent and its foundation was laid in the beginning of the current century. The pharmaceutical industry can be broadly categorised as bulk drugs, formulations, IV fluids and pharmaceutical aids (such as medical equipment, hospital disposables, capsules, etc.). Special feature of the pharmaceutical industry is a large number of manufacturers in the small scale sector. The government is also encouraging the SSI sector providing some incentives. The recent developments in the technology and R & D work in this field have led to the increased growth rate of industries and have established Indian Pharmaceutical industries in the international market.

The content of the book includes information about properties, general methods of analysis, methods of manufacture, of different types of drugs and pharmaceuticals. Some of the fundamentals of the book are polymeric materials used in drug delivery systems , theoretical aspects of friction and lubrication , a convenient method for conversion of quinine to quinidine, formulation and evaluation of bio-available enteric-coated erythromycin and metronidazole tablets, extraction of virginiamycin, antipyretics and analgesics, column chromatographic assay of aspirin tablets, differentiating titration of phenacetin and caffeine, infrared spectra of some compounds of pharmaceutical interest etc.

This book covers an intensive study on manufacturing, production, formulation and quality control of drugs and pharmaceuticals with technology involved in it. This book is an invaluable resource for technologists, professionals and those who want to venture in this field.

Contents

1. INTRODUCTION

Manufacturing
Production
Formulation
Quality Control

2. POLYMERIC MATERIALS USED IN DRUG DELIVERY SYSTEMS

Preparation of polymers
Addition (chain reaction) polymerization
Condensation (step-growth) polymerization
Crosslinked polymers
Copolymerization
More complex co-polymer systems

3. PROPERTIES OF FATTY ALCOHOL MIXED EMULSIFIERS AND EMULSIFYING WAXES

Mixed emulsifier components
Fatty alcohols
Surfactants
Mixed emulsifiers and emulsifying waxes

4. TABLET LUBRICANTS

Theoretical aspects of friction and lubrication
Mechanisms of friction
Boundary lubrication
Applications to tableting
Chemical composition of lubricants
Metallic salts of fatty acids (soaps)
Fatty acids, hydrocarbons and fatty alcohols
Fatty acid esters
Alkyl sulphates
Polymers
Inorganic materials
Miscellaneous materials
Effects of lubricants on the manufacture and properties of tablets
Batch variation of lubricants
Processing
Tablet properties
Magnesium stearate
Commercial materials and batch variation
Pure grade materials
Selection of Lubricants

5. PARACETAMOL-AN ANALYSIS OF TECHNOLOGIES FOR CLEANER PRODUCTION

6. A MODIFIED PROCESS FOR CONVERSION OF - PICOLINE TO NICOTINIC ACID

Experimental Procedure
Experimental Data

7. A CONVENIENT METHOD FOR CONVERSION OF QUININE TO QUINIDINE

Experimental Procedure
Reduction of quinidinone with alane

8. SUSTAINED RELEASE SALBUTAMOL TABLETS - THEORETICAL CONSIDERATIONS

Theoretical considerations

Calculation of Sustained Release Parameters for Salbutamol Sulphate

9. SUSTAINED RELEASE SALBUTAMOL TABLETS - FOR MULATION ENGINEERING AND EVALUATION USE OF FAT AND WAX MATRIX

Materials and methods

Discussion

10. SUSTAINED RLEASE SALBUTAMOL TABLETS - FORMULATION ENGINEERING AND EVALUATION COMPOSITE WAX MATRIX AND INFLUENCE OF ADDITIVES

Materials and methods

Results and Discussion

11. FEASIBILITY OF PRODUCTION OF CHOLERA VACCINE IN FERMENTOR

Materials and methods

Media

Results and Discussion

12. MODIFICATION OF BEESWAX FOR ITS APPLICATION IN TABLET COATING

Materials and methods

Results and discussion

13. FORMULATION AND EVALUATION OF BIO-AVAILABLE ENTERIC-COATED ERYTHROMYCIN AND METRONIDAZOLE TABLETS

Materials and Methods

Coating formulations

Coating process

Dissolution rate studies

Methods of analysis

Results and discussion

Conclusion

14. REDUCING - SUBSTANCES-FREE ACETIC ANHYDRIDE FOR PHARMACEUTICAL INDUSTRIES

Experimental procedure

Materials

Procedure

Results and discussion

15. ANTHRACYCLINE ANTIBIOTICS (DAUNORUBICIN AND ADRIAMYCIN)

Biosynthesis

A. Origin of the Carbon Skeleton

B. Biosynthetic Interrelationships

Fermentation and Recovery

A. Inoculum Preparation and Production of Daunorubicin

B. Isolation and Purification of Daunorubicin

C. Inoculum Preparation and Production of Adriamycin

D. Isolation and Purification of Adriamycin

16. 6-APA

Production of 6-Apa using Penicillin Acylase

A. Enzymation of Penicillin G

B. Extraction of 6-APA

17. EXTRACTION OF VIRGINIAMYCIN

Extraction

18. SAGAMICIN

Fermentation Process

19. CHEMOTHERAPEUTICS, ANTIVIRAL

Antiviral Agents Effective in Humans

Thiosemicarbazones

Amantadine Hydrochloride

5-Iodo-2'-deoxyuridine

Trifluorothymidine

Arabinosylcytosine

Arabinosyladenine

Ribavirin

Interferon

Immunopotentiating Agents

Future of Antiviral Chemotherapy

20. CHEMOTHERAPEUTICS, ANTIPROTOZOAL

Coccidiosis

Thiamine Competitors

Antifolates

Antibiotics

Nitrobenzamides and Nitrofurans

Toxoplasmosis

Anaplasmosis

Babesiasis

Theileriasis

Trypanosomiasis

African Trypanosomiasis

Chagas' Disease

Leishmaniasis

Pneumocystosis

Trichomoniasis

Hexamitosis

Balantidial Dysentery

Giardiasis

Amebiasis

Intestinal Amebiasis

Primary Amebic Meningo-Encephalitis

The Malarias

Drugs Acting on Asexual Blood Forms

Drugs Affecting Tissue Forms

Drugs Acting on Gametocytes

Action Spectra of Antiprotozoal Drugs

Economic considerations

21. CHEMOTHERAPEUTICS, ANTIMYCOTIC AND ANTIRICKETTSIAL

Mycotic Infections

Superficial Mycoses

Systemic and Generalized Mycoses

Antifungal Agents

The Polyene Antibiotics

Candididin
Pimaricin
Nonpolyene Antifungal Antibiotics
Griseofulvin
Cycloheximide
Other antifungal agents
Synthetic Antifungal Agents
Nonspecific Systemic Medications
5-Fluorocytosine
Imidazole Compounds
Tolnaftate
Haloprogin
Agricultural Use of Antifungal Agents
Rickettsial Infections
Treatment of Rickettsial Infections

22. CHEMOTHERAPEUTICS, ANTIMITOTIC

Drug Classification
Alkylating Agents
Antimetabolites
Antibiotics
Plant alkaloids
Miscellaneous Agents
Hormones
Combination therapy
Multidrug Treatment
Immunology
Drug Toxicity
Radiation Therapy

23. CHEMOTHERAPEUTICS, ANTHELMINTIC

Treatment of Blood Fluke Disease (Schistosomiasis)
Treatment of Fluke (Trematode) Infections in the Lungs, Intestines, and Liver
Treatment of Tapeworm (Cestode) Infections
Treatment of Intestinal Roundworm (Nematode) Infections
Treatment of Tissue Roundworm (Nematode) Infections

24. ANTIPYRETICS AND ANALGESICS

Salicylic Acid and its Derivatives
Methods of Manufacture
Sodium Salicylate
Aspirin
Salicylamide
Salicylic Acid
Sodium salicylate
Aspirin
Salicylamide
Methods of Analysis
Separation and Identification
Extraction into Sodium Bicarbonate Solution
Procedure
Separation by Column Chromatography
Procedures

Preparation of Chromatographic Column
 Preparation of Samples
 Separation of Components
 Separation by Gas Chromatography
 Procedures
 Preparation of Column
 Preparation of Samples
 Separation of Components
 Identification
 Procedures
 Test with Ferric Chloride
 Precipitation of Salicylic Acid
 Assay Methods
 Titrimetric Assay of Aspirin Capsules
 Procedure
 Column Chromatographic Assay of Aspirin Tablets
 Procedures
 Preparation of Column
 Preparation of Samples and Standard
 Analysis of Samples
 Assay by Gas Chromatography
 Procedures
 Preparation of Column
 Calibration
 Assay of sample for aspirin content
 Determination of Impurities
 Determination of free salicylic acid in aspirin
 Chromatographic Method
 Procedures
 Preparation of Reagent
 Preparation of Salicylic Acid Standard
 Preparation of Column
 Analysis of Aspirin and Aspirin Tablets
 APC Tablets and Flavoured Tablets
 Spectrophotometric Method
 Procedure
 Readily Carbonizable Substances in Aspirin
 Procedures
 Preparation of Reagents
 Cobaltous Chloride
 Cupric Sulphate
 Ferric Chloride
 Sulfuric Acid
 Testing of Sample
 Impurities in Salicylic Acid
 Ion Exchange Ultraviolet Method
 Procedures
 Preparation of Apparatus
 Preparation of Column
 Analysis of Samples
 Procedure
 Procedures
 Preparation of Plates

Preparation of Reagents & Standards
 Preparation of Sample
 Qualitative Detection
 Quantitative Determination
 Determination in mixtures
 Determination After Separation by Extraction
 Ultraviolet absorption method
 Procedures
 Calibration
 Calculations
 Heuermann And Levine Method
 Procedures
 Preparation of Sample
 Preparation of Column
 Separation of APC Organic base Combination
 APC Barbiturate Combinations
 TURI Method
 Procedures
 Preparation of Column
 Preparation of Samples
 Separation of Fractions
 Spectrophotometric Measurement
 Koshy Method
 Procedures
 Preparation of Column
 Preparation of Samples
 Separation of Components
 Determination of Components
 Determination by Gas Chromatography
 Hoffman and Mitchell Method
 Procedures
 Calibration
 Analysis of Samples
 Crippen & Freinuth Method
 Procedure
 Preparation of Column
 Operating Conditions
 Preparation of Methylating Reagent
 Preparation of Samples & Standards
 Analysis of Samples
 Calculations
 Direct Spectrophotometric Procedure
 Procedure
 Preparation of Mixed Solvents
 Preparation of Reference Solutions
 Analysis of Samples
 Development of Equations
 Infrared and Ultraviolet Spectrometry
 Procedures
 Mixtures of Aspirin, Phenacetin and Caffeine
 Mixtures of Aspirin, Phenacetin and Caffeine and Cadeine Phosphate
 Mixtures of Aspirin, Phenacetin and Caffeine and Thenylpyramine Hydrochloride
 Nonaqueous Titrations

Wollish Methods
Procedures
Determination of Aspirin in the Presence of Stearic Acid
Determination of Aspirin in the Absence of Stearic Acid
Determination of Phenacetin
Determination of Caffeine
APC Tablets in Combination with Phenindamine Tartrate
Determination of Phenacetin
Determination of phenindamine Tartrate
Lin and Blake Methods
Procedures
Determination of Aspiring in APC Mixtures
Differentiating Titration of Phenacetin and Caffeine
Differentiating Titration of Aspirin and Phenobarbital
Nuclear Magnetic Resonance Spectrometry
Procedures
Determination of Spectra
Calculations
Derivatives of Aniline and p-Aminophenol
Methods of Manufacture
Commercial Grades and Specifications
Methods of Analysis
Separation and Identification
Separation by Ion Exchange Paper Chromatography
Procedures
Preparation of Iodoplatinate Reagents
Extraction
Chromatography
Separation by Gas-Chromatography
Procedures
Preparation of Column
Operationg Conditions
Calibration
Preparation of Samples
Separation of Components
Assay Methods
Gravimetric Methods
Procedure
Titrimetric Methods
Titration with Sodium Nitrite
Procedure
Iodometric Titration
Procedure
Assay Through Ethoxy Content
Procedure
Preparation of Reagent
Analysis of Sample
Calculations
Colorimetric Methods
Hydroxamic Acid Method
Procedure
Diazotation Procedures
Procedure

Procedures
Preparation of Buffer Solution
Calibration of the Method
Hydrolysis of Phenacetin
Mouton and Masson Method
Procedure
Chromic Acid Method
Procedure
Ultraviolet Spectrophotometry
Procedure
Determination of Impurities
Impurities in Phenacetin
Procedures
Determination of Acetanilide
Determination of P-Chloroacetanilide
Determination of P-Phenetidine
Free P-Amino Phenol in Acetaminophen
Procedures
Determination in Mixtures
Derivatives of Quinoline
Methods of Manufacture
Commercial Grades and Specifications
Methods of Analysis
Separation and Identification
Cinchophen
Neocinchophen
Assay Methods
Gravimetric Methods
Procedure
Titrimetric Methods
Procedures
Assay of Cinchophen Powder
Assay of Cinchophen Tablets
Procedure
Procedure
Spectrophotometric Methods
Procedure
Determination of Impurities
Procedures
Aniline Derivatives in Cinchophen
Readily Carbonizable Substances
Cinchophen in Neocinchophen
Determination in Mixtures
Derivatives of Pyrazolone
Methods of Manufacture
Commercial Grades and Specifications
Methods of Analysis
Separation and Identification
Antipyrine
Separation by Gas Chromatography
Aminopyrine
Assay Methods
Antipyrine

Spectrophotometric Methods

Procedure

Preparation of Reagent

Analysis of Sample

Gravimetric Method

Titrimetric Method

Polarographic Method

Procedure

Aminopyrine

Gravimetric Methods

Procedure

Assay of Elixir

Assay of Tablets

Acid-base Titration

Complexometric Titration

Procedures

Preparation of Reagents

Analysis of Samples

Bromate Titration

Procedure

Oxidative-Cleavage Method

Procedure

Colorimetric Methods

Procedure

Preparation of Diazotized P-Nitroaniline

Preparation of Sample Solution

Determination by Ferric Chloride

Determination of Diazotized P-Nitroaniline

Determination of Impurities

Antipyrine in Aminopyrine

Procedure

Determination in Mixtures

Antipyrine

Aminopyrine

25. ANTI-ASTHMATIC AGENTS

Adrenergic Stimulants

Anticholinergics

Inhibitors of the release of Allergic Mediators

Xanthine Derivatives

Prostaglandins

Other Drugs

26. PENICILLINS AND RELATED COMPOUNDS

Properties

General Method of Analysis

Separation and Identification

Chromatography

Spectroscopy

Other Methods

Assay Methods

Microbiological Methods

Chemical Methods

Iodometric Titration
 Procedure
 Acid-Base Titration
 Hydroxylamine Colorimetric Method
 Procedure
 Ultraviolet Spectrophotometric Method
 Procedure
 Determination of Impurities
 Benzylpenicillin
 Analysis of Benzylpenicillin
 Microbiological Assay Methods
 Procedure
 Procedure
 Chemical Assay methods
 Procedure
 Procedure
 Allylmercaptomethylpenicillin
 Analysis of Penicillin O
 Microbiological Assay Methods
 Chemical Assay Methods
 Phenoxymethylpenicillin
 Analysis of Phenoxymethylpenicillin
 Microbiological Assay Methods
 Chemical Assay Methods
 Phenethicillin
 Analysis of Phenethicillin
 Microbiological Assay Methods
 Chemical Assay Methods
 Methicillin
 Analysis of Methicillin
 Microbiological Assay Methods
 Chemical Assay Methods
 Carbenicillin
 Analysis of Carbenicillin
 Microbiological Assay Methods
 Procedure
 Chemical Methods
 Ampicillin
 Analysis of Ampicillin
 Microbiological Assay Methods
 Procedure
 Chemical Assay Methods
 Isoxazolylpenicillins
 Analysis of Isoxazolylpenicillins
 Microbiological Assay Methods
 Chemical Assay Methods
 Nafcillin
 Microbiological Assay Methods
 Chemical Assay Methods
 Cephalosporins
 Analysis of Cephalosporins
 Microbiological Assay Methods
 Chemical Assay Methods

27. SULFONAMIDES

Therapeutic Aspects

Systemic infections

Urinary Tract Infections

Physical and Chemical Properties

Theoretical Aspects

Biological Mechanism of Action

Structure-Activity Relationship

Preparation and Manufacture

N1-Heterocyclic Sulfanilamides

N1-Acylsulfanilamides

N1-Heterocyclic-N4-Acylsulfanilamides

N1-Heterocyclic-N1-Acetylsulfanilamides

Miscellaneous Compounds

General Anesthetics, Volatile and Gaseous

Nitrous Oxide

Cyclopropane

Diethyl Ether

Fluroxene

Methoxyflurane

Halothen

Enflurane

Isoflurane

General Anesthetics, Fixed

Ultrashort-Acting Barbiturates

Propanidid

Ketamine

Innovar

Althesin

Etomidate

Spinal Anesthetics

Metabolism and Toxicity of Volatile Anesthetics

Adjuncts to General Anesthesia

Local Anesthetics

Benzocaine

Bupivacaine Hydrochloride

Cocaine Hydrochloride

Dibucaine Hydrochloride

Dimethisoquin Hydrochloride

Dyclonine Hydrochloride

Lidocaine Hydrochloride

Pramoxine Hydrochloride

Procaine Hydrochloride

Tetracaine Hydrochloride

28. INFRARED SPECTRA OF SOME COMPOUNDS OF PHARMACEUTICAL INTEREST

DIRECTORY SECTION

PHARMACEUTICAL / BIOTECHNOLOGY COMPANIES

WORLD WIDE PHARMACY RESOURCES

PHARMACEUTICAL, BULK DRUGS, MEDICINES & RAW MATERIALS

PHARMACEUTICAL MACHINERY & EQUIPMENT

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