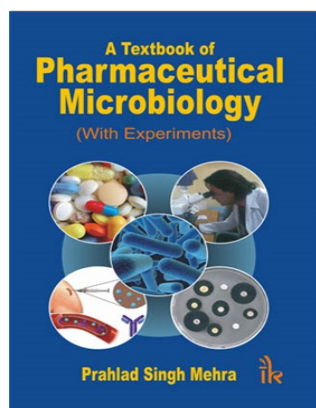


**A Textbook of Pharmaceutical Microbiology, 1/e**

Prahlađ Singh Mehra



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**About the Book**

Textbook of Pharmaceutical Microbiology is an attempt to make each chapter independent and self-contained. This book is very important and essential for every pharmacy student because of its direct connection with pharmaceutical industry, particularly in manufacture of parenteral products, ophthalmic and vaccines etc. and their aseptic processing and sterilization.

This book consists of five sections divided into twelve chapters. First section deals with the scope, history and classification of microorganisms. Section B and C describes the nutrients and isolation of microorganisms, microbial genetics and sterilization techniques. Section D gives the details of basic of immunology and microbial assays and Section E contains all experiments.

This book covers the pharmaceutical microbiology curriculum. According to this book serves as a valuable source of information for teachers and students as well as allied professionals.

**Salient Features**

This book is especially tailored to B. Pharmacy students written in very simple, brief, lucid language and enriched with clear diagrams.

Covers essential materials: microorganism structure and their functions, well defined classifications of microorganisms and microbial genetics.

Well defined sterilization processes in laboratory as well as in hospitals and control cross infections in hospitals.

Every contents of the book are explained with diagrammatically.

In depth coverage of staining techniques of bacteria.

Basics of immunology: history, different antibodies classes, antigen-antibody reactions, hypersensitivity reactions, and about the immunological tolerance.

Well explained gene transfer, replication, transcription and translation processes.

Focusing mainly the important point which is knowledgeable for the students and other readers.

**Table of Contents**

## SECTION A

1. Introduction to Scope of Microbiology
2. Structure of Bacterial Cell
3. Classification of Microbes and Their Taxonomy
4. Identification of Microbes: Stains and Type of Staining Techniques, Electron Microscopy

## SECTION B

5. Nutrition, Cultivation, Isolation of Bacteria, Actinomycetes, Fungi, Virus, etc.

6. Microbial Genetics and Variation

7. Sterility Testing

## SECTION C

8. Disinfectants, Antiseptics, and Preservatives

9. Sterilization

## SECTION D

10. Immunology

11. Antimicrobial Assay of Antibiotics, Vitamins and Amino Acids

## SECTION E

12. Experiments

References

#### **About the Author**

**Prahlad Singh Mehra** :- **Prahlad Singh Mehra** is Assistant Professor, Abhilashi College of Pharmacy, Mandi, Himanchal Pradesh. He obtained his B. Pharmacy degree from Shri Guru Ram Rai Institute of Technology and Science, Dehradun and M.Tech. in Biotechnology from West Bengal University of Technology, Kolkata. At Present he is involved in teaching Pharmaceutical Microbiology and Pharmaceutical Biotechnology.

He has published research papers on journals of national and international repute, viz., Journal of Ethno pharmacology (Science Direct), Current Cardiology Review (Bentham Science) and Journal of Biological Sciences (Online). He has also participated in various symposia/workshops on pharmaceutical sciences and biotechnology. His area of interest are fermentation technology enzymology, molecular biology and rDNA technology.