About the Book

Practical Manual on Fermentation Technology is designed to introduce fermentation technology methods and protocols on the screening of industrially important microbes and production of various industrially important compounds, enzymes, antibiotics, vitamins, etc. by these microorganisms. It also provides assay protocols for the various industrially important microbial products. Each laboratory exercise contains an introductory unit, easy to follow instructions for various media and reagent preparation and procedure for screening of industrially important microbes, production and assay of various fermentation products. This manual will contribute practical knowledge in the area of industrial biotechnology, especially in the area of fermentation technology for teachers, researchers, students and technicians. This book is particularly useful for undergraduate and postgraduate students of Microbiology, Industrial Microbiology, Applied Microbiology, Biotechnology, Bioprocesses Technology and Bioresources Technology.

Salient Features

- Explains the guidelines for safety, industrially important microbes and their products, isolation and optimization of growth conditions, screening, production of industrially important compounds, and assay of compounds.
- Contains process for production of 25 industrially important compounds and food items.
- Details procedure for assaying 28 compounds produced by microbes.
- Provides dedicated chapters on fermenters and assay protocols.

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Isolation & optimization of growth conditions of industrially important microbes
Fermenters and Types of Fermenters
Screening of industrially important microbes
Production of industrially important compounds
Assay
Determination of compounds produced by microbes.

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