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Sinopsis

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Handbook of Microbiological Media, Fourth Edition is an invaluable reference for every medical, veterinary, diagnostic, and academic laboratory, and now in its fourth edition, it is even more complete. This edition carries on the tradition of CRC Press handbook excellence, listing the formulations, methods of preparation, and uses for more than 7000 microbiological media. With 1500 more entries than any previous edition, the handbook includes both classic and modern media used for the identification, cultivation, and maintenance of diverse bacteria, archaea, and fungi.

The breadth of culture media in this comprehensive resource is enormous and has greatly expanded in recent years with the exploration of extreme habitats and the use of molecular methods to identify new lineages of bacteria and archaea. The media also represent significant advances in the ability to use chromogenic substrates to identify specific species and strains of bacteria, e.g., *E. coli* O157 and methicillin resistant *Staphylococcus aureus* (MRSA). These media are extremely useful for clinical diagnostics and for the protection of the food supply from pathogenic microorganisms.

With over 7000 formulations, this new edition includes all the media used for:

Routine examination of food and water

Cultivating specific strains of bacteria, archaea, fungi, and protists, including many anaerobes and extremophiles

Cultivating the numerous microorganisms currently available from the world's global bioresource centers (BRCs)

Additionally, many culture media are now available that are free of animal components. Plant based media eliminate possible contamination with prions, which is important for production of vaccines and pharmaceuticals.

The entries are arranged alphabetically by medium name and include composition, instructions

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for preparation, commercial sources, safety cautions, uses, and more. This reference contains the most comprehensive compilation of microbiological media available in a single volume. The only resource you need for all media types, it makes finding media for culturing diverse microorganisms quick and simple. With uniform presentations of media formulations and preparations, it presents easy-to-follow directions and cookbook recipes for preparing media. You won't find a more complete or user-friendly microbiology reference anywhere.

Contents.
INTRODUCTION
Overview
Organization
Names of Media
Composition of Media
Agars
Peptones
Meat and Plant Extract
Growth Factors
Selective Components
Differential Components
pH Buffers
Trademarks
Preparation of Media
Tyndallization
Inspissation
Autoclaving
Filtration
Caution about Hazardous Components
Uses of Media
Sources of Media
References
Web Resources
MEDIA, ALPHABETICAL A-Z
INDEX

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