

THIRD EDITION

MICROBIOLOGY

Laboratory Theory & Application



Michael J. Leboffe and Burton E. Pierce

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Microbiology: Laboratory Theory and Application, Essentials Michael J. Leboffe, Burton E. Pierce, 2019-02-01 This newest addition to the best selling Microbiology Laboratory Theory Application series of manuals provides an excellent value for courses where lab time is at a premium or for smaller enrollment courses where customization is not an option. The Essentials edition is intended for courses populated by nonmajors and allied health students and includes exercises selected to reflect core microbiology laboratory concepts

Microbiology Laboratory Theory and Application Michael J. Leboffe, Burton E. Pierce, 2008 **Microbiology** Michael J. Leboffe, 2013 **Introductory Microbiology-I** Dr. R Krishna Murthy, The book Introductory Microbiology consists of nine chapters covering all the basics required for the beginners in microbiology. The first chapter Introduction to Microbiology gives a brief insight of the historical development of microbiology pioneers in microbiology developments and various branches of microbiology and scope of microbiology. As microorganisms are ubiquitous in distribution a need for the study of microbial techniques for the proper identification of microorganisms to scientists involved in applied research and industry for their exploitation. The author describes the various isolation and enumeration techniques of microorganisms in the second chapter Isolation and Enumeration of Microorganisms. The author describes the stains its types and various staining methods in the third chapter Staining Techniques for the easy identification of various bacteria as they are quite colourless transparent and have a refractive index of the aqueous fluids wherein they are suspended. Microorganisms are too small nanometers to micrometers to be seen by our unaided eyes and therefore the microscopes are of crucial importance to view the microbes. Hence the author in the fourth chapter Microscopy have described the metric units properties of light basic quality parameters of microscopic image the components of various light and electron microscopes with reference to their working principles and limitations. The newer techniques in microscopy such as confocal fluorescence confocal scanning probe and atomic force microscope and application have also been described. Microbial cells are structurally complex perform numerous functions and have a need for carbon energy and electrons to construct new cellular components and do cellular work. Hence microorganisms should have a constant supply of nutrients and a source of energy which are ultimately derived from the organism's environment. The author in this fifth chapter Microbial Nutrition describes the basic common nutrients required for the microbial growth nutritional types of microorganisms nutritional and physical requirements of microbial growth and the various nutrient uptake mechanisms with a special emphasis on the passive and active transport group translocation and Iron uptake. Culture is an in vitro technique of growing or cultivating microorganisms or only other cells in a suitable nutrients medium called a culture medium in the laboratory. A culture medium is a solid or liquid preparation used to grow transport and store microorganisms. Different microorganisms require different nutrient materials. All the microbiological studies depend on the ability to grow and maintain microorganisms in the laboratory which is possible only if suitable culture media are available. The author in the

sixth chapter Culture media and methods have described the historical prospective of the culture medium important factors for cultivation common ingredients of a culture medium classification of culture media based on consistency nutritiona component and functiona use special culture techniques and some of the commonly used laboratory media have been briefly described People have been practicing disinfection and sterilization unknowingly since time immemorial though the existence of microorganisms was unknown The complete destruction or removal of all living microorganisms or their spores by any physical chemical or mechanical means is called sterilization Sterilization can be accomplished by using heat filtration and gases A satisfactory sterilization process is designed to ensure a high probability of achieving sterility This author in the seventh chapter Sterilization have described the basic principles of sterilization factors influencing the effectiveness of antimicrobial agents various physical and chemical agents and other agents of sterilization The strain development is a primary step in the process of fermentation or growth studies carried out in any fermentation process or microbiological research which enables to increase the population of microorganisms from stock culture to obtain cells in an active and exponential growth phase The author in the eighth chapter Strain development and improvement have described the historical prospective of fermentation with reference to brewing and bakers yeast development of inoculum for bacteria and fungi He has described the conventional Metagenomics genetic engineering and mutation selection and latest strain improvement methods such as the genomic transcriptome proteomic and metabolome analysis Microbial culture preservation aims at maintaining a microbial strain alive uncontaminated without variation or mutation The author in the ninth chapter Culture Preservation describes the relevance of various culture preservation techniques with the objective of maintaining live strains uncontaminated and to prevent change in their characteristics

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