

Study Guide: Control of Microbial Growth

Definitions

- Sterilization
- -static vs. -cidal

Physical and Chemical Methods to Control Microbial Growth

- **Physical:** Radiation, Filtration, Heat and Osmotic Pressure
- **Chemical:**
 - 9 categories of chemicals used outside of body
 - Antiseptics vs. disinfectants
 - Antimicrobial drugs used inside/on the body
- **Modes of Action** (some act in multiple ways)
 - Disrupt cell walls
 - Disrupt cell membranes
 - Denature proteins
 - Affect protein and nucleic acid synthesis

How choose best method? Site, microbe(s), environmental conditions

UV Radiation (Physical)

- Causes Mutations (DNA)- thymine dimers
 - Too many mutations- not able to repair (irreparable)
- UV cannot penetrate below the surface = main limitation
 - Card stock can be used to cover part of each plate
 - Lid MUST be removed before UV treatment takes place
- Bacterial cultures: (Bs grown for 7 days, Bs grown for 1 day, Sa)
 - *B. subtilis*: Gram +, can form endospores
 - *B. subtilis* grown for 7 days and 1 day
 - *S. aureus*: Gram +, can't form endospores
- Different times of treatment
- **Predictions??**

Microbial Growth Study Guide

Daniel V. Lim



Microbial Growth Study Guide:

Study Guide, Biology of Microorganisms, Fifth Edition, Thomas D. Brock & Michael T. Madigan Allan Konopka, Thomas D. Brock, 1988 **Study Guide [to] Microbiology, Principles & Applications, Third Edition [by] Jacquelyn G. Black** Jacquelyn G. Black, George Allan Wistreich, Black, 1996 **Study Guide to Accompany Ronald M. Atlas' Microbiology** Harry E. Peery, 1984 *Study Guide to Accompany Microbiology, Fourth Edition* George A. Wistreich, 1984 **Study Guide to Accompany Microbiology** Raúl J. Cano, Jaime S. Colomé, 1985-02 **Discover the World of Microbes** Gerhard Gottschalk, 2012-09-12 This title is an essential primer for all students who need some background in microbiology and want to become familiar with the universal importance of bacteria for all forms of life Written by Gerhard Gottschalk Fellow of the American Academy of Microbiology and one of the most prominent microbiologists in our time this text covers the topic in its whole breadth and does not only focus on bacteria as pathogens The book is written in an easy to read entertaining style but each chapter also contains a facts section with compact text and diagrams for easy learning In addition more than 40 famous scientists including several Nobel Prize winners contributed sections written specifically for this title The book comes with color figures and a companion website with questions and answers Key features Unique introductory text offering a comprehensive overview of the astonishing variety and abilities of Bacteria Easy to read fascinating and educational Written by one of the best known microbiologists of our time Color images throughout Each chapter has a compact tutorial part with schemes on the biochemistry and metabolic pathways of Bacteria Comes with a companion website with questions and answers **Nanofiltration for Sustainability** Abdul Mohammad, Teow Yeit Haan, Nidal Hilal, 2023-09-30 This book provides a novel exploration of the application of nanofiltration membrane technology for sustainability in various industries situated in view of recent breakthroughs and the use of reuse recycle and resource recovery approaches Moving from a comprehensive discussion of nanofiltration membrane processes to case studies and real world applications of nanofiltration technology across society both successes and potential limitations are considered Features Detailed discussion of the fundamentals of nanofiltration technology The concepts of reuse recycle and resource recovery using nanofiltration technology are explored in combination with other technologies to advance circular economy Considered across a range of industries such as textiles oil gas agriculture and pharmaceuticals Written in a thoroughly detailed manner this book is an essential guide for industry professionals interested in sustainability and working toward a circular economy Comprehensive discussions of the fundamental processes underpinning nanofiltration technology also make this book particularly appealing to students of industrial chemistry **Study Guide forSizer and Whitney's Nutrition Concepts and Controversies** Frances Sizer, Ellie Whitney, Jana R. Kicklighter, 2005-05 The study guide provides students with a detailed review of chapter material reiterating chapter objectives and key concepts The guide challenges students with crossword puzzles and matching exercises reviewing glossary terms from the chapter and probing short answer and

essay questions to test the students overall grasp of the material Included is a sample test for each chapter as well as helpful study tips

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