

# Microbiology Lab Practical 2 Study Guide

## Johnson

**Selective and Differential Media Lab—p.227-259 in lab manual & handout**

**Theory:**

- 1. Selective versus differential media**
  - a. What is a selective medium?
  - b. What is a differential medium?
  - c. How does each work?
- 2. Catalase Test**
  - a. What is the function of the enzyme catalase?
  - b. What impacts does an organism's ability to produce catalase have?

**Techniques & Practices: Know the basics of the procedure we followed**

- 1. Using selective & differential media**
- 2. Catalase Test**
- 3. What were the sources of our inoculum in this lab?**

**Media Types & their uses**

Are they selective, differential, both, or neither? For each medium answer the following questions: What key ingredients does each have? How does each medium work? What organisms or groups of organisms are affected and how?

- 1. Phenyl ethyl alcohol agar**
- 2. Eosin Methylene Blue agar**
- 3. Sabouraud dextrose agar**
- 4. Nutrient agar**

**Applications:**

What information can you gain from applying the following techniques? How might these be used in the real-world or for research purposes?

# Microbiology Praticice Text

**Randall T. Hayden, Karen C.  
Carroll, John P. Dekker, Alexander J.  
McAdam, Donna M. Wolk**

## **Microbiology Practice Text:**

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*Essentials Of Medical Laboratory Practice* Constance L Lieseke, Elizabeth A Zeibig, 2012-01-31 Inside you will find a wealth of information on important laboratory terminology and the procedures you will need to perform to become an effective member of a physician's office team Coverage of the advanced procedures performed outside of the physician's office explains what happens to the samples you send out There is also information on CLIA and other government regulations and how they affect each procedure

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**Manual of Molecular Microbiology** Randall T. Hayden, Karen C. Carroll, John P. Dekker, Alexander J. McAdam, Donna M. Wolk, 2025-07-02 Your essential guide to design operation management and health care integration of the modern molecular microbiology laboratory This comprehensive resource offers definitive guidance on the operational and interpretive aspects of clinical molecular microbiology Tailored for medical laboratory professionals it provides practical how to guidance for establishing maintaining and advancing molecular microbiology testing services and details the unique expertise required to support infectious disease diagnostics The Manual offers a clear and practical roadmap for topics ranging from selecting appropriate technologies instruments and analytic pipelines to navigating complex interpretive challenges and positioning diagnostic testing services for future clinical and population health needs Beginning with foundational technologies and their clinical applications this book offers accessible overviews of each method s potential implications and emerging roles Subsequent sections dive meticulously into details of laboratory setup design and operations empowering readers with hands on insights for routine and advanced testing methods including advanced sequencing technologies It also tackles the nuanced challenges of interpreting and reporting results from cutting edge diagnostics including those focused on antimicrobial resistance and metagenomics The final section explores the broader impact of molecular microbiology on value based care with discussions on clinical management laboratory stewardship and the future of molecular diagnostics in public health Comprehensive and forward looking the Manual of Molecular Microbiology equips readers with both foundational knowledge and practical expertise making it an indispensable reference for today s clinical laboratory professionals

**Molecular Testing in Laboratory Medicine** David E. Bruns, Y. M. Dennis Lo, Carl Wittwer, 2002 Tietz Textbook of Clinical Chemistry and Molecular Diagnostics - E-Book Nader Rifai, 2017-01-16 The Tietz Textbook of Clinical Chemistry and Molecular Diagnostics 6th Edition provides the most current and authoritative guidance on selecting performing and evaluating the results of new and established laboratory tests This classic clinical chemistry reference offers encyclopedic coverage detailing everything you need to know including analytical criteria for the medical usefulness of laboratory tests variables that affect tests and results laboratory medicine applications of statistical methods and most importantly clinical utility and interpretation of laboratory tests It is THE definitive reference in clinical chemistry and molecular diagnostics now fully searchable and with quarterly content updates podcasts clinical cases animations and extended content online through Expert Consult Analytical criteria focus on the medical usefulness of laboratory procedures



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**Microbiology of Extreme and Human-Made Confined Environments (Spacecraft, Space Stations, Cleanrooms, and Analogous Sites)** Rakesh Mogul, Ralf Moeller, 2022-06-07

ASTM Standards on Materials and Environmental Microbiology American Society for Testing and Materials, ASTM Subcommittee E35.15 on Antimicrobial Agents, 1993      **Russell, Hugo & Ayliffe's Principles and Practice of Disinfection, Preservation and Sterilization** Adam P. Fraiese, Peter A. Lambert, Jean-Yves Maillard, 2008-04-15 Highly respected established text a definitive reference in its field covering in detail many methods of the elimination or prevention of microbial growth highly recommended to hospital and research personnel especially to clinical microbiologists infection control and environmental safety specialists pharmacists and dieticians New England Journal of Medicine WHY BUY THIS BOOK Completely revised and updated to reflect the rapid pace of change in this area Updated material on new and emerging technologies focusing on special problems in hospitals dentistry and pharmaceutical practice Gives practical advice on problems of disinfection and antiseptics in hospitals Discusses increasing problems of natural and acquired resistance to antibiotics New contributors give a fresh approach to the subject and ensure international coverage Systematic review of sterilization methods with uses and advantages outlined for each Evaluation of disinfectants and their mechanisms of action

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