

Laboratory Exercise 18: Environmental effects on microbial growth

Each microbial species can tolerate a range of environmental condition that affects microbial enzymes, membranes and other components. You will examine the growth of several bacteria in varying pH, salt, and temperature conditions.

Water is essential to all forms of life. It is not only the principal component of cytoplasm, but also an essential source of electrons and hydrogen ions. Organisms, like plants, require water to maintain cellular turgor pressure. Whereas water in prokaryotes requires it to prevent shrinking of the cell resulting in separation of the membrane from the cell wall, a condition called plasmolysis.

Bacteria constitute a diverse group of organisms that have developed many adaptations for survival. For example, some bacteria halophiles grow optimally in NaCl concentrations 3% or higher. Extreme halophiles are organisms with specialized cell membrane and enzymes that require salt concentrations from 15% up to about 25% and will not survive where salinity is lower. Except for a few osmotolerant bacteria, which will grow over a wide range of salinities, most bacteria live where NaCl concentrations are less than 3%.

Bacterial Cultures:

Escherichia coli

Staphylococcus aureus

Bacillus cereus

pH Test Materials:

3 pH 3 tubes

3 pH 7 tubes

3 pH 9 tubes

Procedure:

pH Effects on Microbial Growth

1. Obtain 3 tubes of pH 3, 7, 9. Label them with the organism's name, and group name. Example: pH 3, 7, 9 tubes will be labeled with *E. coli*.
2. Inoculate the pH broths with the test organisms.
3. Incubate tubes at 37°C for 48 hours.

Second Lab Day:

1. Record the growth you observe as - (no growth), +, ++, +++, and ++++ (lots of growth).

Bacterial Cultures:

Escherichia coli

Staphylococcus aureus

Bacillus cereus

Microbiology Lab Manual Questions And Answers

**Gerard J. Tortora, Christine L. Case, Ted
R. Johnson**



Microbiology Lab Manual Questions And Answers:

Microbiology Practical Manual, 1st Edition-E-book Amita Jain,Jyotsna Agarwal,Vimala Venkatesh,2018-09-15 This book is a practical manual in Microbiology for 2nd year MBBS students There is no standard book for practical exams in the market This book will be a student s companion in their Microbiology practical class where they can read it do their experiments as per directions given in book and do their assignments It would be a complete practical book with tutorials at the beginning of each chapter helping the students understand the concepts Integrates practical important theoretical concepts of Microbiology Every chapter divided in a tutorial practical exercise spotters and assignments Contains easy to reproduce diagrams during the practical exams Important case wise Viva questions at the end of each chapter Sample cases at the end of each chapter for understanding the correlation It would be a complete practical book with tutorials at the beginning of each chapter helping the students understand the concepts Laboratory Manual of Microbiology Vivek Kumar,2012-03-01 This laboratory manual of microbiology has been written to meet the needs of students taking microbiology as major or subsidiary subject The intention is to provide the students with well organized user friendly tool to better enable them to understand laboratory aspects of microbiology as well as to hopefully make learning laboratory material and preparing for independent player of a given experiment Each exercise provides step by step procedure to complete the assignment successfully and easily The lab exercises are designed to give the student hands on laboratory experience to better reinforce certain topics discussed in exercise The glossary is included covering terms as well as basic discipline specific terminology from microbiology that will be helpful to its readers The main contents of the manual are Microbiology laboratory practices and safety rules Basic laboratory techniques Microscopy Staining and motility techniques Environmental microbiology Microbiological culture techniques Growth of lactose fermenting and non fermenting microbes Medical microbiology Environmental effect on bacterial growth Application of microbiology Microbiology of milk and Appendices The academic level of the book is graduate post graduate students research workers teachers and scientists dealing with basic and applied aspects of microbiology **Laboratory Exercises in Microbiology** Robert A. Pollack,Lorraine Findlay,Walter Mondschein,R. Ronald Modesto,2018-07-11 The Laboratory Exercises in Microbiology 5e by Pollack et al presents exercises and experiments covered in a 1 or 2 semester undergraduate microbiology laboratory course for allied health students The labs are introduced in a clear and concise manner while maintaining a student friendly tone The manual contains a variety of interactive activities and experiments that teach students the basic concepts of microbiology The 5th edition contains new and updated labs that cover a wide array of topics including identification of microbes microbial biochemistry medical microbiology food microbiology and environmental microbiology **Molecular Microbiology Laboratory** Walt Ream,Bruce Geller,Katherine Field,2012-08-31 Intends to teach principles and techniques of molecular biology and microbial ecology to upper level undergraduates majoring in the life sciences and to develop students

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Selected Exercises for Microbes in Action, Fourth Edition Harry W. Seeley,Paul J. Vandemark,John J. Lee,1990-10-15

Laboratory Experiments in Microbiology Ted R. Johnson,Christine L. Case,2004 Newly revised to accompany

Microbiology An Introduction Eighth Edition by Tortora Funke and Case this lab manual includes 57 experiments that demonstrate the broad spectrum of microbiology Intended as a manual of basic microbiological techniques this popular lab manual features applications for undergraduate students in diverse areas including the biological sciences the allied health sciences agriculture environmental science nutrition pharmacy and various pre professional programs Experiments have been refined in this new edition to encourage students to develop critical thinking skills as well as learn basic facts and technical skills Material with direct application to clinical and commercial labs is included wherever possible and increased emphasis is placed on lab safety **Immunology & Serology in Laboratory Medicine - E-Book** Mary Louise

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preparation aseptic techniques dilution plating etc followed by analytical methods and advanced tests for food borne pathogens The Manual includes a total of fourteen complete experiments The first of the Manual s four sections reviews basic microbiology techniques the second contains exercises to evaluate the microbiota of various foods and enumerate indicator microorganisms Both of the first two sections emphasize conventional cultural techniques The third section focuses on procedures for detecting pathogens in food offering students the opportunity to practice cultural biochemical immunoassay and genetic methods The final section discusses beneficial microorganisms and their role in food fermentations concentrating on lactic acid bacteria and their bacteriocins This comprehensive text also Focuses on detection and analysis of food borne pathogenic microorganisms like Escherichia coli 0157 H7 Listeria monocytogenes and Salmonella Includes color photographs on a companion Web site in order to show students what their own petri plates or microscope slides should look like <http://class.fst.ohio-state.edu/fst636/fst636.htm> Explains techniques in an accessible manner using flow charts and drawings Employs a building block approach throughout with each new chapter building upon skills from the previous chapter

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