

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

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Table of Contents Microbiology Lab Manual Answers

1. Understanding the eBook Microbiology Lab Manual Answers
 - The Rise of Digital Reading Microbiology Lab Manual Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Microbiology Lab Manual Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Microbiology Lab Manual Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microbiology Lab Manual Answers
 - Personalized Recommendations
 - Microbiology Lab Manual Answers User Reviews and Ratings
 - Microbiology Lab Manual Answers and Bestseller Lists
5. Accessing Microbiology Lab Manual Answers Free and Paid eBooks

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 - Microbiology Lab Manual Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
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 - Highlighting and Note-Taking Microbiology Lab Manual Answers
 - Interactive Elements Microbiology Lab Manual Answers
- 8. Staying Engaged with Microbiology Lab Manual Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microbiology Lab Manual Answers
- 9. Balancing eBooks and Physical Books Microbiology Lab Manual Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microbiology Lab Manual Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Microbiology Lab Manual Answers
 - Setting Reading Goals Microbiology Lab Manual Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Microbiology Lab Manual Answers
 - Fact-Checking eBook Content of Microbiology Lab Manual Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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