

Module 7: Bacterial Growth Overview Study Guide

1. Definition of microbial growth: increase in number, not in cell size.
2. Bacteria reproduce by binary fission.
3. You need to know how to calculate population numbers using generation time and growth time. E.g. The generation time for *Staphylococcus aureus* is 2 hours. Starting with 3 *S. aureus* cells, after 10 hours, how many cells do you have?
 - a. Generation time = 2 hours; Growth time = 10 hours. 10 hours / 2 hours = 5 (each cell will divide 5 times after 10 hours) $2^5 = 32$ cells (after 5 rounds of division, each cell will generate 32 cells). Starting with 3 cells: $32 \times 3 = 96$ cells total.
4. Microbes need essential nutrients to grow. Essential nutrients include macronutrients, which are required in bulk; and trace elements / micronutrients, which are needed in trace amounts.
5. Macronutrients include C, H, O, P, S, N, which are used as building blocks; whereas various ions (Mg^{2+} , Ca^{2+} etc.) are usually used as enzyme cofactors and to maintain cell osmolarity.
6. Define the following organism groups.
 - 1) Autotroph: Autotroph
 - 2) Heterotroph: Heterotroph
 - 3) Phototroph: Phototroph
 - 4) Chemotroph: Chemotroph
 - 5) Organotroph: Organotroph
 - 6) Lithotroph: Lithotroph
7. If a microbe is able to conduct photosynthesis, what classification will it fall under? What about human pathogenic bacteria?
 - a. Photoautotroph (for photosynthetic organisms)
 - b. Chemoorganoheterotroph (human pathogens)
8. What is a growth factor?
 - a. A growth factor for a given organism is a small organic compound that a particular organism cannot make but needs for growth. Therefore it must be obtained from its surrounding environment.
9. Why do pathogenic bacteria tend to require more growth factors than free-living bacteria?
 - a. Pathogenic bacteria live within the host bodies that are rich in nutrients.

Study Guide To Accompany Microbial Life

Noel R. Krieg, Michael Joseph Pelczar



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Table of Contents Study Guide To Accompany Microbial Life

1. Understanding the eBook Study Guide To Accompany Microbial Life
 - The Rise of Digital Reading Study Guide To Accompany Microbial Life
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide To Accompany Microbial Life
 - 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 Study Guide To Accompany Microbial Life
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide To Accompany Microbial Life
 - Personalized Recommendations
 - Study Guide To Accompany Microbial Life User Reviews and Ratings
 - Study Guide To Accompany Microbial Life and Bestseller Lists
5. Accessing Study Guide To Accompany Microbial Life Free and Paid eBooks
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- Study Guide To Accompany Microbial Life Budget-Friendly Options
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 - Highlighting and Note-Taking Study Guide To Accompany Microbial Life
 - Interactive Elements Study Guide To Accompany Microbial Life
- 8. Staying Engaged with Study Guide To Accompany Microbial Life
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Guide To Accompany Microbial Life
- 9. Balancing eBooks and Physical Books Study Guide To Accompany Microbial Life
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Guide To Accompany Microbial Life
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Study Guide To Accompany Microbial Life
 - Setting Reading Goals Study Guide To Accompany Microbial Life
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Study Guide To Accompany Microbial Life
 - Fact-Checking eBook Content of Study Guide To Accompany Microbial Life
 - 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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