

# Microbiology Lab Final

## Modules 2, 3, 5, & 7

### Module 2

#### • Key Terminology

- Culture is a medium containing living microbes
  - Pure Culture: One species of Microorganisms
  - Mixed Culture: Two or more species of Microorganisms
  - Contaminated Culture: Contains one or more unknown organisms
- Streak Plate Inoculation
  - Purpose:
    - Obtain isolated colonies from a mixed culture → Pure Culture
      - Colonies are accurately termed colony-forming units (CFUs)
  - Techniques include Quadrant and T-streak methods
    - Make sure to label the bottom of the plate with section, class, initials, and group table #
    - Draw T shape on T-streak plate
  - Typically performed on selective media

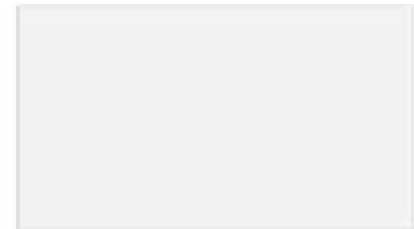


Make sure to incise/scratch the inoculating loop between streaks

Drag loop through the last streak to ensure some cells are carried over to the new streak.

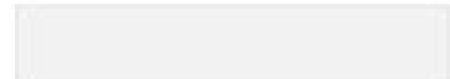
#### • → Basic Characteristics of Agar Colony Growth

- Size
- Shape
- Margin
- Surface
- Texture
- Elevation
- Pigment/Optical Properties



#### • Simple Stains

- A Stain is the solution of solvent and colored molecule (Chromogen that provides contrast)
  - Chromogen:
    - Chromophore gives color
    - Auxochrome gives charge



#### • Bacterial Smear Preparation

- Make sure you are wearing gloves and eye protection
- 1st: Place a small amount of distilled water on the slide (~5 drops) using the inoculating loop
- 2nd: Inoculate the loop and let cool for about 30 seconds, then grab a colony from the agar plate. Take the colony on the loop and swirl the colony in the water until no visible chunks are present
  - Spread the water to about the size of a dime
  - Inoculate loop once done
- 3rd: Allow the smear to air dry, if done correctly the



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## **Table of Contents Microbiology Lab Final Study Guide**

1. Understanding the eBook Microbiology Lab Final Study Guide
  - The Rise of Digital Reading Microbiology Lab Final Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Microbiology Lab Final Study Guide
  - 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 Final Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Microbiology Lab Final Study Guide
  - Personalized Recommendations
  - Microbiology Lab Final Study Guide User Reviews and Ratings
  - Microbiology Lab Final Study Guide and Bestseller Lists
5. Accessing Microbiology Lab Final Study Guide Free and Paid eBooks
  - Microbiology Lab Final Study Guide Public Domain eBooks
  - Microbiology Lab Final Study Guide eBook Subscription Services
  - Microbiology Lab Final Study Guide Budget-Friendly Options
6. Navigating Microbiology Lab Final Study Guide eBook Formats

- ePub, PDF, MOBI, and More
- Microbiology Lab Final Study Guide Compatibility with Devices
- Microbiology Lab Final Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Microbiology Lab Final Study Guide
  - Highlighting and Note-Taking Microbiology Lab Final Study Guide
  - Interactive Elements Microbiology Lab Final Study Guide
- 8. Staying Engaged with Microbiology Lab Final Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Microbiology Lab Final Study Guide
- 9. Balancing eBooks and Physical Books Microbiology Lab Final Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Microbiology Lab Final Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Microbiology Lab Final Study Guide
  - Setting Reading Goals Microbiology Lab Final Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Microbiology Lab Final Study Guide
  - Fact-Checking eBook Content of Microbiology Lab Final Study Guide
  - 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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