

Microbiology Lab Practical #1

This Lab Practical covers Exercises 1-7, safety, and handouts.

Safety & Exercise #1: Introduction to Microbiology Lab

Microbiology Laboratory Rules

- Come prepared. Read lab exercise before lab. Complete all take home work.
- **Safety** is priority #1. Report accidents immediately to instructor.
- Do not bring food, drinks, or use cosmetics in the lab.
- Be organized and be aware of what is happening around you.
- Disinfect benchtop and wash hands before and after every lab.
- Handle every specimen as if it were a patient sample. Label!
- Remove any marks and tape before placing glassware in cart for cleaning.
- Clean and handle microscopes carefully.
- **Report** all incidents to the instructor immediately.
- Read the Lab Manual and come to lab **prepared**.
- **Follow instructions closely.**
- Do not attempt a procedure if you are not sure how to do it.

Exercise #2: Microscopy

Know the parts of the microscope and their functions.

Magnification is increase in apparent size of an object.

Staining is generally needed to increase the **contrast** of bacteria with the background.

Resolution is the ability to distinguish objects as distinct and separate.

Resolving power (RP) depends on:

- **quality of the objective lens,**
- **wavelength** of light used and
- **refractive index.**

$$\Delta r = \lambda / 2 \times NA \quad (\lambda = \text{wavelength, } NA = \text{numerical aperture})$$

Scope storage:

1. Light turned off, rheostat on
2. Low power objective (4x) in position
3. Stage down
4. Condenser down
5. Clean off oil with lens paper and methanol
6. Cord coiled and stowed in pocket.
7. Push in mechanical stage gear so it is flush with stage
8. Carry with 2 hands

Grade 1micro Organism Practical Exam

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Table of Contents Grade 1micro Organism Practical Exam

1. Understanding the eBook Grade 1micro Organism Practical Exam
 - The Rise of Digital Reading Grade 1micro Organism Practical Exam
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 1micro Organism Practical Exam
 - 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 Grade 1micro Organism Practical Exam
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 1micro Organism Practical Exam
 - Personalized Recommendations
 - Grade 1micro Organism Practical Exam User Reviews and Ratings
 - Grade 1micro Organism Practical Exam and Bestseller Lists
5. Accessing Grade 1micro Organism Practical Exam Free and Paid eBooks
 - Grade 1micro Organism Practical Exam Public Domain eBooks
 - Grade 1micro Organism Practical Exam eBook Subscription Services
 - Grade 1micro Organism Practical Exam Budget-Friendly Options

6. Navigating Grade 1micro Organism Practical Exam eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 1micro Organism Practical Exam Compatibility with Devices
 - Grade 1micro Organism Practical Exam Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 1micro Organism Practical Exam
 - Highlighting and Note-Taking Grade 1micro Organism Practical Exam
 - Interactive Elements Grade 1micro Organism Practical Exam
8. Staying Engaged with Grade 1micro Organism Practical Exam
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 1micro Organism Practical Exam
9. Balancing eBooks and Physical Books Grade 1micro Organism Practical Exam
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 1micro Organism Practical Exam
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 1micro Organism Practical Exam
 - Setting Reading Goals Grade 1micro Organism Practical Exam
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 1micro Organism Practical Exam
 - Fact-Checking eBook Content of Grade 1micro Organism Practical Exam
 - 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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