

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

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J Ma



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