

Lab #1A

Laboratory Protocol and

Microscopic Technique for Veterinary Parasitology

What you should accomplish during Lab # 1A

1. Become familiar with laboratory organization and rules.
2. Know how specimens are best examined and how the microscope can be adjusted for the best view of particular types of specimens.

PROTOCOL:

1. A description of the laboratory rules will be reviewed. (page 5)
2. After a demonstration, students will practice the use of the compound microscope, as appropriate for viewing parasitological specimens. (Appendix A)

LABORATORY ORGANIZATION

- Work in pairs
- Parasitology drawers with supplies are all orange & numbered 1-25.

LABORATORY SUPPLIES

Some supplies that are used during the lab are listed below. Please note the “disposable supplies” versus the supplies that need to be retained.

Non-Disposable Supplies

1. McMaster’s counting chamber
2. McMaster’s measuring vial
3. Plastic cups
4. Tea strainers
5. Microscope slide box
6. Sodium nitrate containers
7. Test tube racks
8. Centrifuge tubes
9. Plastic Transfer Pipettes ←(**Do Not Dispose**)
10. Flotation vials (brown) ←(**Do Not Dispose**)

Disposable

1. Wooden applicator sticks
2. Wooden tongue depressors
3. Glass slides & Cover slips

LABORATORY ORGANIZATION AND OPERATING RULES

1. Laboratory exams and grading.

- There will be two laboratory practical exams based on specimen identification and diagnostics. 1st Lab exam is 5%; 2nd Lab Exam is 15% of the course grade.

2. Protective garments

- Laboratory exercises involve the use of potentially infectious materials.
- You are required to wear laboratory coats & close-toed shoes
- When working with fecal samples, and other possibly infectious material, you are required to wear exam gloves.

3. Lab Hygiene

- Laboratory exercises involve the use of potentially infectious materials, some with important zoonotic potential.
- There will be no food or beverages allowed in the laboratory.
- Do not put objects in your mouth.
- Wash your hands immediately after handling contaminated material and **before** using microscopes.
- Discard all waste into the trash containers lined with **Biohazard** bags.
- Broken glass is disposed of in broken glass boxes distributed about the room. **However, inform an instructor if a microscope specimen slide breaks.**
- Metal sharps and needles are discarded in the sharps containers distributed about the room.
- Used fecal / blood slides should be disposed in the "slide disposal" container on the sink counters.
- You are responsible for the cleanliness of your work areas. Clean-up spills immediately. Utilize the disinfectant solutions located on the sink counters to clean areas that have had the potential for contamination.
- At the end of each lab, wipe down your work areas (sink counter & microscope area) with the disinfectant solution.
- Please keep the laboratory clean in consideration of your classmates and students of other classes using this laboratory space.

4. Lab safety

- Become aware of safety equipment and fire escape routes.
- **Safety glasses** are provided in your drawers.
- **Eye wash & shower station** is located over the center counter to the left of the center aisle.
- **Fire extinguisher** is located by the door of B104B

5. Be on time and be prepared.

- Generally, the lab sessions will require the full time allotted.
- Announcements will be made at the beginning of the period.
- At the end of every lab, **switch Off microscope illumination & pointer.**