

Microbiology Lab Experiment Changes

Experiment #: 3-7

Title: Acid-Fast Stain

Live Organisms: *Mycobacterium phlei*, *E. coli*

Changes:

Modified procedure:

Put heat fixed smear onto “staining hot plate”.

Use tongs to place a sponge saturated with stain onto the smear.

Allow stain to sit approximately 5 minutes.

Each student will make at least two slides from the available cultures.

Observe and draw *Mycobacterium tuberculosis* slide demo.

Take Home Lesson: You need to know the reagents and their function in the staining procedure. Why do we use the acid-fast stain? On what organisms is it used? Be able to recognize that an organism is acid-fast or non-acid-fast based on its appearance under the microscope.