Microbiology Lab Experiment Changes

Experiment #: 2-7

Title: Anaerobic Jar

Live Organisms: *B. cereus, E. coli, M. luteus, Clostridium sporogenes*

Changes: Procedure - Anaerobic GasPak Technique
(Work in same groups; each group does all 4 bacteria)

1. Each group will obtain 2 TSA plates.

2. Divide each plate into 4 quadrants and label each quadrant with a different organism. Use a wax pencil and write on the bottom of the plate. Label one plate “Aerobic” and the other “Anaerobic”.

3. Inoculate each quadrant with a different organism using a sterile loop.

4. The instructor will show you how to incubate the anaerobic plates in the GasPak anaerobic jar. The aerobic plates go into the 37°C incubator.

5. Next period record the presence or absence of growth on the plate.

Take Home Lesson: Describe how a GasPak anaerobic system generates an anaerobic environment. How can you tell whether an anaerobic environment has been achieved in the jar? Given a set of aerobic / anaerobic plates, determine which organisms are: strict aerobes, strict (obligate) anaerobes, and facultative anaerobes.