

MLAB 2434: Microbiology
Unknown #1: Gram Positive Cocci

Objectives:

1. Verify requisition data with specimen to determine acceptability, if applicable.
2. Demonstrate correct streaking technique.
3. Work up each isolate according to the guidelines given in lecture and lab using appropriate methodologies and terminology.
4. Demonstrate Gram staining by obtaining correct Gram reactions.
5. Use conventional biochemical tests to identify the isolate(s).
6. Quantitate any organism isolated and record the results.
7. Complete the final report (Unknown worksheet) using correct terminology.

Procedure:

1. Select an unknown sample from the rack, and then sign the unknown form. Note the identification number of your specimen or patient name on your unknown worksheet.
2. Streak for isolation utilizing aseptic technique as learned in lab. The student will be given a blood agar plate and a MacConkey plate.
3. Using methods we have learned and observed in the lecture and lab components of the course, identify and quantitate any bacteria isolated.
4. The student must utilize the worksheet to document the work performed on their unknown. All steps must be accounted for and correct terminology must be used.
5. The student must include in their final report a diagnostic flowchart illustrating their thought processes to arrive at the final bacteria.
6. Students must hold all gram stains and plates until a grade on their unknown is received.

Possible List of Organisms for #1:

- *Staphylococcus aureus*
- Coagulase negative *Staphylococcus*