

Microbiology Lab Experiment Changes

Experiment #: 6-1, 1-6 (Spread Plate)

Title: Standard Plate Count

Live Organisms: *Escherichia coli* (dilute culture)

Changes: Procedure (Work in groups)

1. Obtain 4 sterile TSA plates and five 9-mL water blanks.
2. Follow the procedure in the lab manual and pay attention to diagram illustrating the procedure.
3. After pipetting bacteria onto plates, they must be spread using a sterilized spreader. Your instructor will demonstrate.
3. Next period fill in table in the lab manual results section and do calculations.

Take Home Lesson: If given the dilution, you should be able to determine the dilution factor. If given the number of colonies on a plate, you should be able to calculate the number on colony forming units (CFUs) using the dilution factors. Remember only colony counts between 30 and 300 are usable. If more than one plate has countable colonies, take an average. Unitless numbers are meaningless!