

Student Name: _____

Date: _____

SKILLS TEST II – STREAK PLATE PROFICIENCY

The name of the student performing this skills test must be placed at the top of this page.

Submissions having no name shall not be scored.

Procedure

Students shall review and use the BIOL 3702L Standard Practices regarding the labeling, incubation, and disposal of materials.

- 1) Obtain a tryptic soy agar (TSA) plate and label the bottom (agar) side with the student's name performing this Skills Test.
- 2) An 18-24-hour broth culture containing a mixture of *Escherichia coli*, *Staphylococcus aureus*, and *Chromobacterium violaceum* shall be made available. From this mixed broth, streak a loopful on the on the labeled TSA plate to isolate the three bacteria. The streak method employed can be three-phase, four-quadrant, or any method that generates a significant number of well-isolated colonies.
- 3) Incubate the plate at 35-37°C for 24-48 hours.

Note: If the student returns sooner than the next scheduled laboratory session, place the streak plate in the refrigerator agar side up. Keeping the agar plate cool will slow growth of the microbes. At the next laboratory session, remove the plate and submit it and this form to the laboratory instructor.

- 4) At the next laboratory session, remove the plate and submit it and this form to the laboratory instructor. The laboratory instructor shall examine your streak plate and offer constructive criticism. In addition to making comments on this form, the laboratory instructor shall initial this form and provide a score from 0-5 points. The score shall depend upon the quality of your streak plate.
- 5) If the laboratory instructor scores the streak plate at 3 points or less, the student will be offered the opportunity to repeat the streak plate. Use a new copy of this form when submitting the second streak plate. Also, attach the previously submitted form to the new one. If the quality of the second attempt improves, the student's recorded score will increase by one point. If the quality is worse, there shall be no further deduction in score.

Note: Students earning a score of 4 or 5 shall not be offered a second attempt.

First Attempt: Laboratory Instructor's Initials _____ Score (First Attempt): _____

Second Attempt: Laboratory Instructor's Initials _____ Score (Second Attempt): _____

Instructor's comments:

