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1. Gather equipment: sterilized swabs and agar petri dish and gloves.
2. Wash hands with hand disinfectant
3. prepare work area: place paper towells on counter; pour surface disinfectant onto them until just wet.
4. light the bunsen burner
5. select the culture to be transferred
6. select a tube of broth, an agar slant, and an agar plate to be inoculated.
7. label each appropriately with the following: name of culture used, your name, and date. Label bottom of the agar plate.
10. Inoculate the agar plate:
   a. place the petri dish containing the agar plate on the counter
   b. hold the tube containing the bacterial growth in the left hand and the inoculating loop in the right hand.
   c. flame the loop and allow to cool
   d. remove the cap from the tube, briefly flame the mouth of the tube, and use the ~~tube~~ loop to obtain a portion of a colony of bacterial culture.
   e. withdraw the loop, flame the mouth of the tube, replace the cap and place the test tube on the rack.
   f. open the petridish lid with the left hand just enough (2½ inches) to allow the entrance of the loop.
   g. Streak one quadrant by spreading the organisms, making six to eight streaks.
   h. flame the loop and cool it
   i. turn the petri dish one quarter turn.
   j. streak the second quadrant marking six to eight streaks, entering the previously

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streaked quadradrant two to three times.
k. repeat steps i-j for the third quadrant
l. begin the streaks in the fourth quadrant as in the other quadrants; continue making the streaks, decreasing the width and increasing the distance between the streaks to form a "tornado-like" pattern.
11. turn off bunsen burner
12. Place broth + slant tubes into a test tube rack in a 37°C incubator. (leave caps slightly loosened). Place the agar plate upside down in the 37°C incubator
13. clean & equipment and return to proper storage
14. Clean work area with surface disinfectant
15. Wash hands with hand disinfectant
16. Check the broth, slant, and agar plate for bacterial growth after overnight incubation. The broth should be cloudy, indicating growth of organisms. The slant should have a zigzag formation of bacterial growth on the surface. The agar plate should have bacteria growing in all four quadrants with some isolated colonies in the third and fourth quadrants.
17. Be sure to observe colonies.

Colony Morphology: Part A

Quadrant 1: yellow, pink, + white irregular, circular, raised, entire.
Quadrant 2: circular, irregular raised, undulate. white

Quadrant 3: pink, white, yellow circular, raised, irregular, filamentous undulate.
Quadrant 4: circular, raised, filiform. White

Part B: Quad I (very little colonies)
shape = coccus and bacillus
grouping => streptococcus

Overgrowth.

KB 2/24/06

Conclusion: I had many different types of bacteria. There were little bacteria in some quad's.

KB 2/28/06
Conclusion: I didn't have a lot of colonies. The ones I did have grew together with bacteria all around it.