

Name: _____

Microbiology Enriched Media

Materials required:

Misc. equipment and supplies as needed

Chocolate agar (Choc) 2, Blood Agar (BA) 1 per pair

Specimens:

Staphylococcus aureus

Haemophilus influenzae

Procedure:

1. Work in pairs. Using previously practiced streaking and isolation methods subculture the following organisms to the specified media as directed by your instructor. It is imperative that you use good isolation technique to ensure the success of this procedure.

Streak *Staphylococcus aureus* to Choc for isolation

Streak *Haemophilus influenzae* to Choc for isolation and to Blood agar (BA) as directed by your instructor.

Staph Streak Procedure:

1. On the Blood agar, after inoculating the *Haemophilus*, using a sterile needle streak a single line of the *Staphylococcus aureus* as directed by your instructor.
2. Incubate both plates under standard conditions.
3. After incubation, examine the BA and Choc media. Disregard the Staph Streak for now. Look for differences that you see between the growths on the both plates. Which plate(s) is/are the *Haemophilus* growing on?
4. If you were to Gram stain the growth seen on both plates, what gram reaction appears on which media? Should there be a difference?
5. Record your observations in the table or spaces below. Note that I will be evaluating your answers where points are assigned.

Name: _____

Enriched Media

	Colony Description	Gram Stain & morphology (1/2pt each)
<i>Staphylococcus aureus</i>		
Growth on Choc		
Growth on Blood Agar		
<i>Haemophilus influenzae</i>		
Growth on Choc		
Growth on Blood Agar		

Staph Streak plate (Consider only the *Haemophilus*):

1. Look very closely at the blood plate. Describe the colony morphology of the organism growing NEXT to the Staph (white line of growth) streak with respect to amount, size, pigment, etc.)? (1/2 pt)
2. Compare the growth next to the streak line to what happened on the rest of the plate where you inoculated the *Haemophilus*. What occurred on the blood plate to allow the above colony to grow only next to the *Staphylococcus*? (1pt)
3. Is the growth next to the Staph line the same *Haemophilus* that is growing on the Choc plate? Explain your answer? (1pt)

Based upon your observations:

4. How would you describe enriched media? (1/2 pt)
5. Which organism required the more enriched media for growth? (1/2 pt)
6. What is the purpose for a lab to use enriched media? (1pt)