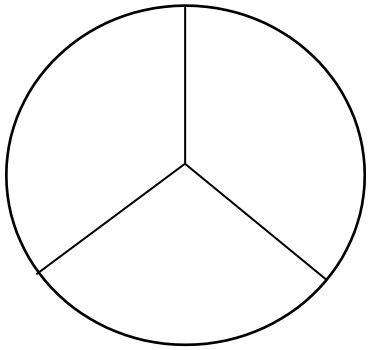
MEDIA & AEROTOLERANCE **DATE:_____ PARTNER INITIALS:_____**

EXERCISE 6.1 – SELECTIVE & DIFFERENTIAL MEDIA

OBSERVATIONS: Use colored pencils to draw the appearance of each plate, labeling all organisms.

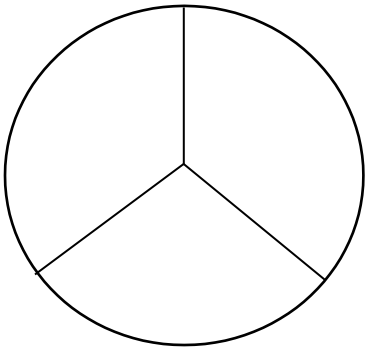
BLOOD AGAR



TYPE	ORGANISM	HEMOLYSIS APPEARANCE
Beta		
Alpha		
Gamma		

1. Which ingredient makes BAP differential?_____ Is this agar selective?_____
2. Acute pharyngitis (strep throat) is associated with which streptococcal hemolysis type?_____
3. Where in the body do gamma hemolytic streptococci predominate?_____

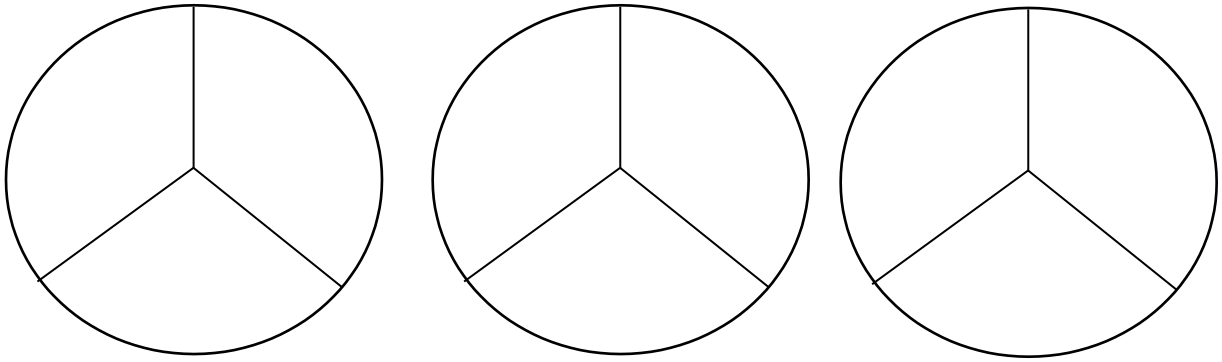
MANNITOL SALT AGAR



ORGANISM	APPEARANCE ON MSA

4. Which ingredient makes MSA selective?_____ Differential?_____
5. What can you conclude based on the results?_____

EOSIN METHYLENE BLUE, MACCONKEY & CETRIMIDE AGARS



EMB MAC CET

ORGANISM	APPEARANCE ON EMB	APPEARANCE ON MAC	APPEARANCE ON CET

6. Which ingredients make EMB and MAC selective?_____
7. Which ingredient makes EMB and MAC differential?_____
8. Were results for growth and fermentation similar for EMB and MAC agars?_____
9. Which of the organism(s) tested are coliforms?_____
10. Which ones are non-lactose fermenting, Gram-negative bacteria?_____
11. How does the color of lactose-fermenting coliforms on EMB differ from those on MAC?_____

_____

12. Would you expect a coliform to grow on blood agar?_____Why or why not?_____

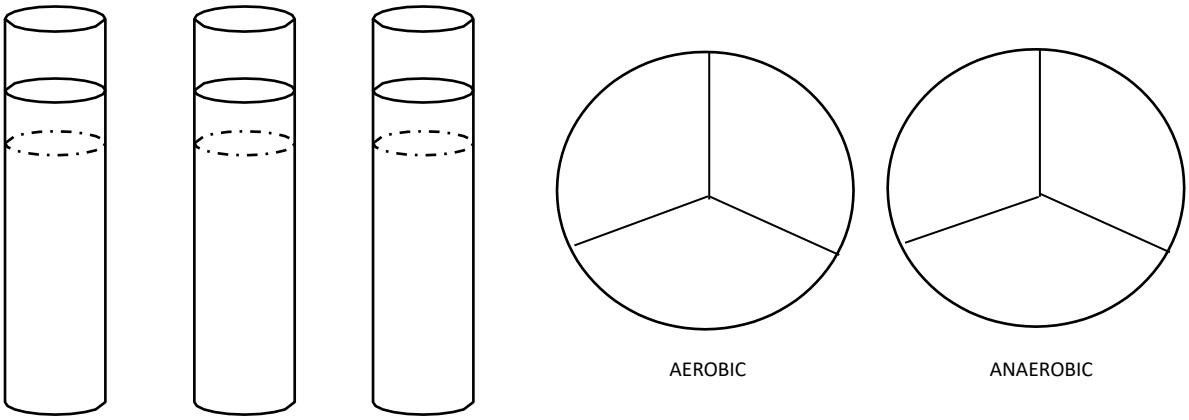
_____

_____

13. Is cetrimide agar selective?_____Differential?_____

EXERCISE 6.2 – AEROTOLERANCE

OBSERVATIONS: Draw growth patterns in FTM broth and on plates, labeling all organisms. Complete the table regarding aerotolerance type: **obligate aerobe, obligate anaerobe, facultative anaerobe**, or **aerotolerant**.



ORGANISM	AEROTOLERANCE TYPE

QUESTIONS FOR REVIEW

1. What color was the resazurin in the FTM oxic zone prior to inoculation?_____
2. If FTM tubes were accidentally vortexed before observing, what aerotolerance type would all organisms appear to be?_____ Explain._____
3. What color should the methylene blue indicator be before opening the jar?_____ What does this indicate about conditions inside the jar?_____
4. Would you expect *Pseudomonas* to cause a deep wound infection?_____ Why or why not?_____