

ID OF GRAM-POSITIVE COCCI

DATE: _____ PARTNER INITIALS: _____

EXERCISE 8.1 – CATALASE TEST

OBSERVATIONS: Record the appearance of results for the catalase test below. Dispose of slides in the disinfectant beaker.

| ORGANISM | APPEARANCE | INTERPRETATION (+ or -) |
|----------|------------|-------------------------|
| | | |
| | | |

QUESTIONS FOR REVIEW

What is the purpose of catalase in cells? _____

A student attempting to identify an unknown performs a catalase test without doing a Gram stain. The student observes bubbles and assumes that the organism must be *Staphylococcus*. Why might this be an incorrect assumption?

EXERCISE 8.2 – COAGULASE TEST

OBSERVATIONS: Record results for the coagulase tube and/or slide test in the table. Dispose of tubes and slides in the disinfectant beaker.

| ORGANISM | TUBE TEST APPEARANCE | LATEX TEST APPEARANCE | INTERPRETATION (+ or -) |
|----------|----------------------|-----------------------|-------------------------|
| | | | |
| | | | |

Which selective and differential agar confirms the results of coagulase test? _____

What is the appearance of coagulase-positive organisms on this agar? _____

EXERCISE 8.3 – BILE ESCULIN TEST

Record results for the bile esculin test in the table.

| ORGANISM | APPEARANCE | INTERPRETATION (+ or -) |
|----------|------------|-------------------------|
| | | |
| | | |

Enterococcus, or Group _____ streptococci, is part of the _____ microbiome.

Which differential agar is used to confirm the results of the bile esculin test? _____

What is the expected result for *Enterococcus* on this agar? _____

Which test is used to determine whether a particular isolate is VRE? _____

What is the expected result? Be specific. _____

EXERCISE 8.4 – CAMP TEST

Record results for the CAMP test in the table.

| ORGANISM | APPEARANCE | INTERPRETATION (+ or -) |
|----------|------------|-------------------------|
| | | |
| | | |

Streptococcus agalactiae, or Group _____ streptococci, are _____ hemolytic on blood agar, while *Enterococcus faecalis*, or Group _____ enterococci are _____ hemolytic.

What is the expected CAMP reaction (positive or negative) for Gram-positive bacteria that are catalase negative and bile esculin positive? _____ Explain. _____
