

# Bacterial Staining

1. Give two staining methods used for Petri dishes. (4 points)

- a. Coomassie Blue
- b. Gel Code blue

2. Give three staining methods used for slides. (5 points)

- a. Methylene blue
- b. Crystal/Gram Stain  
violet
- c. ~~Rhoda~~ India Ink

3. What two stains are used in conjunction to distinguish between gram positive and gram negative bacteria? (2 points)

~~methylene blue~~ and crystal violet

4. *E. coli* are Gram-negative and will stain violet, while *L.P* are Gram-positive and will be blue colored. (4 points)

5. Coomassie Blue forms bonds with  $\text{NH}_3^+$  groups. Why is this stain important? (5 points)

because ~~it~~ <sup>proteins</sup> binds to positively charged cations, proving what kind of bacteria it is staining. ~~unclear~~ NO

6. Explain how and why we heat fix bacteria. (5 points)

so that the stains don't wash the bacteria off the slide.