

Bi 10 Prelab #2

Any questions regarding this prelab should be addressed to Yicheng Luo at [ycluo@caltech.edu](mailto:yclu@caltech.edu)

1.
 - a. Why is an agarose gel used? (2pt)
 - b. What kind of buffer is used for gel electrophoresis? (1pt)
 - c. What does the abbreviation for the buffer stand for? What does each component do? (6pt)
2. What does ethidium bromide do, and what is it used for? What would happen if you forgot to add it to your gel? why should it be carefully handled? (3 points)
3.
 - a. What kind of loading dye is used in this experiment? (2pt)
 - b. What are the 3 important components in this loading dye? What does each component do? (9pt)
4. What is the purpose of a DNA ladder? (2pt)