

- 5 ✓ 1. For storage purposes, stock cultures of bacteria are kept at 4 °C so that the cells survive but growth almost completely stops. (5 points)
- 5 ✓ 2. For faster growth, cultures are moved to incubators set at 37 °C. (5 points)
- 2 ✓ 3. Give one reason why shaking is important for liquid cultures. (2 point)
So the bacteria don't pile up on each other
- 0 ✗ 4. *L. plantarum* grows roughly 2x (twice) as fast as *E. coli*. (1 point)
~~1000x~~ half
- 2 ✓ 5. What is one major difference between bacterial cells and mammalian cells? (2 points)
Bacterial cells are prokaryotic and mammalian cells are eukaryotic.
6. Give two reasons why we study bacteria in this lab. (5 points)
- 4 ✓ a. They are easier to acquire than mammalian cells for our research purposes. Vague.
- b. They grow faster than mammalian cells
- 5 ✗ 7. In order to grow bacteria in a way that closely resembles the bacterial biofilms found in nature, colonies of bacteria are grown on agar in the lab. (5 points)
~~petri dishes~~