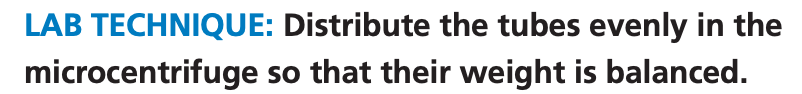
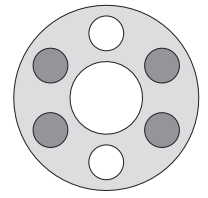
**Lab 6A: Lysing the Bacterial Culture**

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| **LAB TECHNIQUE NOTES: All appropriate safety precautions and attire required for a science laboratory should be used. Please refer to your teacher’s instructions. Use *aseptic technique* when working with E. coli bacteria. Discard all tubes and tips from this lab into the WASTE containers indicated by your teacher.** |

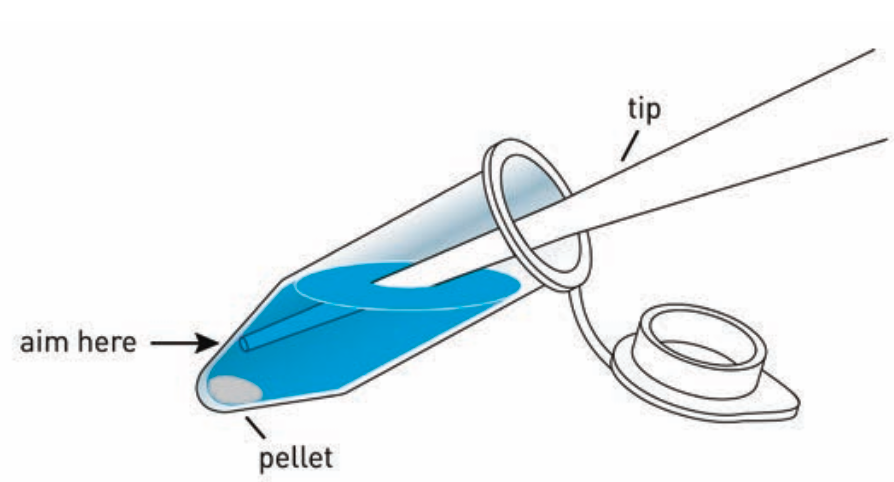
1. Label your tube of E. coli [EC] solution with your group and period ID. Record its color.

2. Place your EC tube in the high speed microcentrifuge and spin down for 5 minutes.

3. Remove your tube being careful not to disturb the pellet of cells at the bottom.

4. Using the p1000 micropipette set to 500µL, carefully remove the supernatant without touching the cell pellet with the tip. Repeat and remove as much of the supernatant as possible. Discard the tip and the supernatant in the WASTE container. Note the color of the cell pellet and supernatant in your notebook.



5. Bring your tube to your teacher who will add an additional 1mL of culture.

6. Repeat steps 2-4.

7. Change the volume to 150µl and use a new tip to add 150µL of Elution Buffer [EB] to the remaining cell pellet. Gently pipette up and down to resuspend the cells.

8. Using a new tip, add 150µL of Lysis Buffer [LyB] to the tube. Cap the tube and drag it vigorously across the surface of your tube rack to resuspend the cells. The solution should become foamy and there should not be any clumps of cell pellet.

9. Give the tube to your teacher to incubate overnight at room temperature or allow at least 30 minutes for lysis to occur before proceeding to Lab 6B.

10. Dispose all tubes and tips in the WASTE container and disinfect your lab bench.