

### **Group I: Glucose-1-Phosphate, Isolation**

1. Potato people keep everything cold and work efficiently.
2. AJ will prepare the starch so you do not need to.
3. The phenyl mercuric nitrate is TOXIC so be careful with the little wax paper packets.
4. Measure and record Total Volume and remove a small aliquot (~0.5 mL) into a labeled test tube for later assay after each section you complete.
5. After today you do not need to worry about keeping things cold as you are no longer working with an enzyme.
6. Stop after “Incubation of the Enzyme with Starch”, leaving the 500 mL Erlenmeyer flask (125 mL enzyme solution, 125 mL starch, 125 mL 0.8M phosphate buffer) with a cheese cloth cover in the hood.
7. You will be able to tell if the reaction has worked by watching the color change from red-brown to blue-black.

### **Group II: Wheat Germ, Isolation**

1. Tutorial on using the refrigerated ultra-centrifuge.
2. Also today and every lab period after you must store the enzyme frozen in a labeled, plastic bottle. The enzyme, wheat germ acid phosphatase, is very heat sensitive.
3. Remove from freezer in AM otherwise when you come to the lab things will be frozen and the only way to speed thawing is using cold tap water.
4. Also do NOT to stir or agitate the enzyme too vigorously.
5. Remove a small aliquot, which should be stored labeled, in a plastic test tube, frozen, for later assay after each section you complete.
6. Stop after “Water Extraction of the Enzyme from Wheat Germ”.
7. **Store: SI**