

Group I: Glucose-1-Phosphate, Purification

1. Potato People weigh the crystals using an analytical balance.
2. Prepare a standard G-1-P solution by dissolving 16-22 mg of your now pure G-1-P in 10 mL of dH₂O.
3. In duplicate do: 7-Min Hydrolysis, Total Hydrolysis (1 mL 1N HCl, boiling water bath for 15 min), Unhydrolyzed all Fiske-Subbarow assay.
4. Do the Nelson's assay which measures for G-6-P contamination.
5. Don't do Chromatographic Characterization.

Group II: Wheat Germ, Kinetics

1. The Wheat Germ People should do Kinetics I, time course, do the experiment one time through in duplicate.

Prepare 14 reaction tubes each containing:

0.5 mL Sodium Acetate

0.5 mL MgCl₂

3.3 mL dH₂O

0.5 mL PNPP

For addition of enzyme, see Handout ([link](#)).

2. Prepare dilutions in plastic tubes as per Table 5-2 (Kinetic Properties II), store frozen.