

Photosynthesis: DPIP Lab

1. What is the purpose of DPIP in this experiment?
2. What molecule found in chloroplasts does DPIP “replace” in this experiment?
3. What is the source of the electrons that will reduce DPIP?
4. What was measured with the colorimeter in this experiment?
5. What is the effect of darkness on the reduction of DPIP? Explain.
6. What is the effect of boiling the chloroplasts on the subsequent reduction of DPIP? Explain.
7. What reasons can you give for the difference in the absorbance between the live chloroplasts that were incubated in the light and those that were kept in the dark?
8. Identify the function of each of the cuvettes.

Cuvette 1: _____

Cuvette 2: _____

Cuvette 3: _____

Cuvette 4: _____

Cuvette 5: _____

9. Describe any sources of error that may have occurred during the lab and how they may be corrected.

Analysis of Results

Plot the absorbance from the four cuvettes on the graph below. Label each plotted line.

For this graph you will need to determine the following:

- a. The independent variable: _____
- b. The dependent variable: _____

Graph Title: _____

