

402 GUIDELINES FOR LAB SUBMISSIONS

NAME: Your Names

TITLE: Analysis of H₂O₂

INTRODUCTION

Six paragraph intro on:

1. REDOX reactions
2. Balancing half reactions
3. Potassium permanganate reaction with Ferrous ammonium sulfate (Figure 1)
4. Potassium permanganate reaction with Hydrogen Peroxide (Figure 2)
5. Titration and equivalence point. (Figure 3)
6. In this study

We determined through calculations that we would need _____ mls of permanganate ion to react with _____ moles of H₂O₂.

Based on our percent error _____, our calculations were within 5.00% of the hypothesized amount so we accept our hypothesis.

MATERIALS METHODS

- a) Write out your experimental design.
- b) What were your controls?
- c) What was measured?
- d) What is the independent variable for this experiment?
- e) What is the dependent variable for this experiment?
- f) Write out all mathematical equations used to make serial dilutions?
- g) How many trials were done?

RESULTS

- a) Provide all of your data in this section.
- b) 1 paragraph explaining each figure (all figures at the back).
- c) You must have transition statements to move the reader through the

CONCLUSION:

- a) Explain how your data either matches or contradicts your hypothesis.

Figure 1: showing the equations for the half reactions for Potassium permanganate reaction with Ferrous ammonium sulfate

Figure 2: showing the equations for the half reactions Potassium permanganate reaction with Hydrogen Peroxide

Figure 3: Titration technique