Enzyme Lab

Group Lab Report due 10/2/19

Should include:

1. Title and purpose/objective (s) of the lab (5).
2. Background (10):
3. General enzyme information. Could include but is not limited to: definition, diagrams, examples.
4. Factors that are known to affect enzyme activity.
5. Equation with substrate and products labeled. Make sure to write the enzyme over the arrow as it catalyzes the reaction.
6. Description of guaiacol and the purpose of this reactant in the lab.
7. Your hypothesis and a description of how you tested your variable (5)
8. Data table(s) with baseline and variable data (10).
9. Graphs of baseline and variable data (10). Be sure to include all labels, keys, graph title, etc.
10. Conclusion: Write a paragraph that summarizes your experiment and results. The paragraph must include the following information in addition to a general conclusion(10):
11. What is the purpose of the baseline measurement? What variable did your group test?
12. How did the rate of reaction in your baseline compare to the rate of reaction in your variable test group? How do you account for the differences?
13. Describe another group’s variable and their reaction results.
14. What were the independent and dependent variables in this experiment? What were the constants?
15. The speed of a peroxidase reaction was found to increase with increasing hydrogen peroxide concentrations as expected. However, at high peroxide concentrations, the reaction rate decreased and eventually went to zero what could explain this observation?