BIOL 150 Lab 7 Assignment: Determining the Properties of an Enzyme Lab Report
Typed Introduction and Literature Cited Sections due at the beginning of lab Sept. 12, 13.
Typed Results Section due at the beginning of lab Sept. 19, 20.
Objective: This assignment will help you practice interpreting experimental results and writing a scientific report.

In addition to submitting a hard copy of your lab report to your lab instructor, you will also submit an electronic copy to Blackboard. To do this, click on the “Assignment” tab in Blackboard and submit your lab report. Your lab report will only be graded if you provide both a hard copy to your lab instructor and an electronic copy uploaded to TurnItIn on Blackboard before your lab begins on the due dates listed above.

Directions:
1. After you have completed the lab, read the lab summary (p. 84), “Learning Biology by Writing” (p. 85), and Appendix D: “Writing Reports and Scientific Papers” (pp. 461-464). You also may need to review Appendix A: “Significant Figures and Rounding” (pp. 451-452) and Appendix B: “Making Graphs” (pp. 453-454).
2. For this lab report, you will write the introduction, results, and literature cited of the four experiments (Effects of temperature, pH, boiling, and competitive inhibitor). Therefore, pay close attention to the information presented in Appendix D: “Writing Reports and Scientific Papers” (pp. 461-464) describing the results and figures.

Format: You will have four sections to your report—an introduction and a results section for each experiment. Label each section appropriately. For each of the four experiments:

Introduction and Literature Cited sections DUE SEPT. 12, 13

1. Introduction (8pts): Your introduction should provide sufficient background information to understand the experiment. You need to cite your sources both in text and in the “Literature Cited” list at the end of your lab report (see lab book for formatting). Each section should be 1-2 paragraphs and include one hypothesis. Do not write this as a purpose and do not include null hypotheses.
2. Literature Cited (2pts): See your lab book for formatting of your reference list. You must use at least three references for this lab report. This means you will need at least one other reference in addition to your textbook and lab book. Lecture notes and internet websites are not acceptable references. I recommend finding a microbiology or cell biology textbook from the library and using this as a reference.

Results sections DUE SEPT. 19, 20

3. Results (10pts):
   a. Provide a graph of your results.
      i. Prepare your graphs in Excel and paste them into your lab report. If you do not know how to use Excel for this, there are several online tutorials you can use for help including http://qrc.depaul.edu/StudyGuide/MakingGraphsWithExcel.htm and http://www.internet4classrooms.com/excel_create_chart.htm among others.
      ii. You must properly label the axes of all graphs with a descriptor and units (if applicable).
      iii. You must provide a figure legend for each graph and each graph should be a separate figure (i.e. Figure 1, Figure 2, etc.)
   b. Write a 1-2 sentence summary of your results. Make sure you refer to the figures when describing your results and conclude whether your hypothesis was supported or falsified.

Please double-space or 1.5 space your paper so your lab instructor may give feedback, where appropriate. Remember what constitutes plagiarism and, if necessary, review the following site: http://www.siue.edu/lovejoylibrary/services/instruction/plagiarism.shtml. You must write in complete sentences. Make sure you proofread since points will be deducted for spelling, grammatical, and punctuation errors.