College of the Canyons: Introduction to Biotechnology
Protein Standard Curve: Post Lab

1. What is meant by the term "assay?"

2. Describe two different types of assays other than the one you worked on in this lab.

3. Describe how the protein color development solution yields a color change.

4. If you had an 80µl sample of 1.5 mg/ml concentration, what would the final concentration be if the final sample is diluted to 150µl? (hint: C1V1=C2V2).

5. Describe an application where a protein curve using a "*known unknown*" would be assesses. Describe a situation where a protein concentration would be looked at with an "*unknown unknown*" be used. Cite lab manual as needed.

6. What is the R value? How does repeating an experiment affect the R value.

7. Cite the two types of curves in question 5 describe the axis of both curves. Which curve is more accurate and why? If one curve is more accurate than the other, why is the inaccurate curve used?

8. Use a series of numbers (1,2,3) to list and briefly describe the **steps** involved in getting the protein concentration of an unknown. Hint: Review lab and annotate the steps.