BIOL205

Lab 3

**Bradford assay**

1. Measure the absorbance at 595 nm of each of the 3 BSA standards and the unknown protein.

|  |  |
| --- | --- |
| Protein conc. (mg/mL) | Absorbance  (at 595 nm) |
| 0.2 | 0.3 |
| 0.4 | 0.55 |
| 0.8 | 0.875 |
| Unknown | 0.42 |

1. In Excel, make an XY graph of absorbance versus protein concentration for the BSA standards. Insert a linear trendline and display the equation and R2 value. Paste the graph here. It can be unformatted for this worksheet, but you will have to format it according to scientific journal standards for your lab report. See tutorial video 9 at <https://knisely5e.sinauer.com/videos.html>.
2. Calculate the concentration of the unknown protein sample using the equation for your standard curve. Include units.