# BRADFORD ASSAY FOR DETERMINING PROTEIN CONCENTRATION

All preparations should be done in/with plastic because the Bradford Reagent reacts with glass.

1. Dilute protein assay reagent (Biorad) 1:4 with milli-Q water (usually 5 mL of reagent and 15 mL of water is enough).
2. Add 1 mL of reagent to 200 uL of each protein sample.
3. Measure the absorbance of each sample at 595 nm.

To determine the concentration of your sample, plot a standard curve and extrapolate back to your reading. Bovine serum albumin (BSA) is usually the protein standard of choice. The table below indicates the amounts of 400 ug/mL BSA you should mix with water or buffer to give the concentrations shown.

| Concentration | Amount of BSA (uL) | Amount of Water/Buffer (uL) |
|---|---|---|
| 250 | 125 | 75 |
| 200 | 100 | 100 |
| 150 | 75 | 125 |
| 100 | 50 | 150 |
| 50 | 25 | 175 |
| 25 | 12.5 | 187.5 |
| 0 | 0 | 200 |