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## **BRADFORD ASSAY FOR DETERMINING PROTEIN CONCENTRATION**

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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  $\mu$ L 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  $\mu$ g/mL BSA you should mix with water or buffer to give the concentrations shown.

<u>Concentration</u>	<u>Amount of BSA (<math>\mu</math>L)</u>	<u>Amount of Water/Buffer (<math>\mu</math>L)</u>
250	125	75
200	100	100
150	75	125
100	50	150
50	25	175
25	12.5	187.5
0	0	200