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Technical Bulletin

Protein Quantitation by Bradford Method *

Product: Bradford Reagent.

Catalog #: BRA222

Protocol:

1. Into 4 separate microcentrifuge tubes, aliquot 5, 10, 15 and 20 µl of 0.5 mg/ml BSA solution. Bring the volume of each to 100µl with 0.15 M NaCl.

2. Into 1 tube, aliquot 100µl 0.15N NaCl. This will serve as a blank.

3. Add to each tube, 1 ml Bradford Reagent and vortex. Allow to stand at room temperature for 2 minutes.

4. Determine A_{595}nm using 1ml microcuvette. Generate a standard curve by plotting absorbance at 595 nm versus protein concentration.

5. For the unknown sample, repeat steps 1-4 using the unknown in place of the BSA. Plot the A_{595}nm and use the standard curve as a reference to determine the concentration of the unknown sample

If after the initial assay, the unknown protein concentration is too high, dilute the protein or assay a smaller aliquot of the unknown.

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* Bradford, M.M. 1976. A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein dye binding. *Anal.Biochem. 72:248-254*

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