

Technical Data Sheet



MQ Bradford Reagent Cat No. BDF-M-001-500

Components

MQ Bradford Reagent consists of Brilliant Blue G-250 in methanol and phosphoric acid. The 500 ml of reagent is enough to perform at least 160 standard 3ml assays.

Background

The Bradford Protein Assay measures total protein concentration in a unknown protein sample. This assay works by determining the color change achieved with the basic amino acids combined with Coomassie dye, which, under acidic conditions, changes the color of the sample from brown to blue.

Features

MQ Bradford Reagent is a ready to use mixture which does not require further mixing or dilution. The changed color can be read at 596nm within 5 minutes of incubation. Economical assay for protein concentration.

Protocol

1. Into 4 separate microcentrifuge tubes, aliquot 5, 10, 15 and 20ul of 0.5mg/ml BSA solution. Bring the volume of each to 100ul with 0.15N NaCl.
2. Into 1 tube, aliquot 100ul 0.15N NaCl. This will serve as a blank.
3. Add to each tube, 1ml MQ Bradford Reagent and vortex. Allow to stand at room temperature for 2 minutes.
4. Determine A₅₉₅ nm using a 1ml microcuvette. Generate a standard curve by plotting absorbance at 595nm versus protein concentration.
5. For the unknown sample, repeat step 1-4 using the unknown in place of the BSA. Plot the A₅₉₅nm and use the standard curve as a reference to determine the concentration of the unknown sample.
6. If after the initial assay, the unknown protein concentration is too high, dilute the protein or assay a smaller aliquot of the unknown.

Storage

Store at 2-8°C