

BCA Kit Quantification of Proteins

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Items Needed

Micro BCA Protein Assay Kit- Thermo Scientific Prod # 23235

BSA for standard

Sample Protein

96 well plate

1 ml Eppendorf Tubes

PBS

Protocol

- 1) Measure BSA in a 1 ml tube to use as a standard.
- 2) To this tube, add 1 ml PBS.
- 3) Do 7, 2-fold serial dilutions, into 1 ml tubes containing 500 ul PBS
- 4) Weigh the sample protein, in triplicate, into a 1 ml tube. Weigh the sample so the concentration will fit within the standard curve.
- 5) Pipette 100 ul of the standard or sample onto the plate
- 6) Make working reagent (WR) by calculating the amount needed to add 100 ul to each well. Round up so some extra is made. After calculating the total volume of WR required, make the WR by adding reagents MA, MB and MC together in a 25(MA):24(MB):1(MC) ratio.
- 7) Add 100 ul WR to each well
- 8) Cover with parafilm and incubate @ 37C for 2 hours
- 9) Cool down at room temperature
- 10) Measure on plate reader at 562 nm absorbance