

BCA Protein Assay

BCA Protein Assay Kit provides a simple, rapid, detergent-compatible procedure for the colorimetric detection and quantitation of total protein. The method utilizes the reduction of the copper cation (Cu^{2+}) to the cuprous cation (Cu^{+}) by protein in an alkaline medium. The generated Cu^{+} forms an intensely purple-colored complex with the bicinchoninic acid (BCA) with a very strong absorbance at 562nm. The intensity of the water-soluble complex is proportional to the amount of protein in the sample. The BCA Protein Assay is suitable for measuring protein concentration in the range of 50-1000 $\mu\text{g/mL}$.

Note: that commonly used detergents SDS, Triton X-100, Tween-20/60/80 do not affect the test results, but were affected by chelating agents (EDTA, EGTA), reducing agents (DTT, mercaptoethanol) and lipids.

If the background value of the sample diluent or lysate is found to be high, try the Bradford Protein Assay Kit (Cat. No. 210002).

The reagents supplied in the kit are sufficient conduct 500/2500 assays with the microplate procedure and 50/500 assays with the tube procedure.

Catalog No.	210001
Size	500 Assays
Product Category	Protein Assay
Storage/Stability	2 ~ 8°C/1 year
Shipping	Ambient & Gel Packs