

Protein Quantification Kit (BCA)

Cat No: HR3BC1135

For research use only

Overview

Detection Method	Colorimetric method
Storage	minus 20°?
Instrument	Microplate reader (562 nm)
Assay Time	35 min
Validity	1 year
Assay Type	Quantitative
Sample Type	
Synonyms	
Instrument	Microplate reader (562 nm)
Detection Principle	<p>The BCA protein assay is a widely used method for protein quantification, utilizing bicinchoninic acid (BCA) for colorimetric detection. This technique combines the reduction of Cu^{2+} to Cu^+ by proteins in an alkaline environment (the biuret reaction) with the formation of a purple-coloured complex resulting from the interaction of Cu^+ with BCA. This complex has a maximum absorbance at 562 nm and exhibits a nearly linear response to protein concentrations across a broad range (0–2 mg/mL). Due to its high sensitivity and ease of use, the BCA protein assay is commonly adopted by laboratories and industries as a preferred method for protein quantification, alongside the Bradford assay.</p>
Reagents	
Labware	Micropipettor, Centrifuge, incubator
Size	2500T
Sensitivity	
Detection Range	up to 3 mg/ml
Recovery Rate	