

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@m2stage.hellobio.com



## DATASHEET

### Mini BCA Protein Assay Kit

#### Product overview

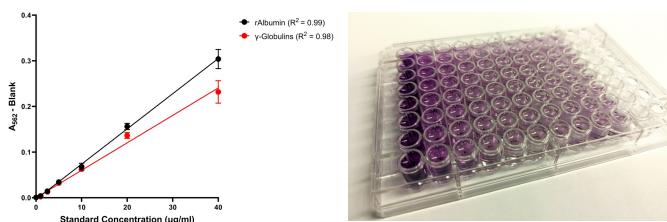
Name	Mini BCA Protein Assay Kit
Cat No	HB6653
Biological description	Simple, rapid, detergent tolerant (up to 5%) kit for determining the concentration of proteins in solution. This kit is optimized to measure protein concentrations from 0.5 to 200 $\mu$ g/mL.

Key features of the mini-BCA Protein Assay Kit:

- **Detergent compatible** - compatible with detergent concentrations up to 5%
- **Wide assay range** - can measure protein concentrations from 0.5 to 200  $\mu$ g/ml
- **Stability** - kit is stable at room temperature

Biological action	Kit
Description	Simple, rapid, detergent tolerant kit for measuring the concentration of proteins in solution (0.5 to 200 $\mu$ g/mL).

#### Images



#### Biological Data

##### Application notes



Mini BCA Assay Protocol [PDF](#)

Before using the kit for the first time add 10ml of buffer to the protein standard to create a 200 $\mu$ g/ml solution. Use this to create a dilution series of 0, 0.5, 1, 2.5, 5, 10, 20, 40 and 200 $\mu$ g/ml samples (please see the [pdf protocol](#) for precisely how to do this). For best accuracy use the same buffer as your proteins of interest. The assay can either be carried out in microplate or tube format.

##### Microplate Protocol

1. Add 150 $\mu$ l of each standard to a microplate well alongside the unknown samples. Ideally this should be carried out in triplicate.
2. Prepare the working reagent by mixing 1 volume of reagent C with 25 volumes reagent B. Then

add 26 volumes reagent A to the C/B mixture. For easy calculation add 3 $\mu$ l reagent C, 75 $\mu$ l reagent B and 78 $\mu$ l reagent A per well.

3. Add 150 $\mu$ l of working reagent to each well and incubate for 2 hours at 37°C
4. Let the plate cool to room temperature for 1-2 minutes.
5. Measure absorbance at 562nm using a microplate reader. This should be ideally carried out within 40 minutes of the start of the assay to maximise accuracy.
6. Subtract the absorbance of the 0mg/ml samples from all measurements then construct a standard curve using the sample data.
7. Use the standard curve to calculate the protein concentration of the unknown samples.

### Tube Protocol

1. Add 1ml of each standard to labelled test-tubes alongside the unknown samples. Ideally this should be carried out in triplicate.
2. Prepare the working reagent by mixing 1 volume of reagent C with 25 volumes reagent B. Then add 26 volumes reagent A to the C/B mixture. For easy calculation add 20 $\mu$ l reagent C, 500 $\mu$ l reagent B and 520 $\mu$ l reagent A per well.
3. Add 1ml of working reagent to each tube and mix thoroughly.
4. Incubate for 1 hour at 60°C in a water bath. Alternatively the incubation can be carried out for 60 minutes at room temperature.
5. Cool all tubes to room temperature for 5 minutes.
6. Measure absorbance at 562nm using a spectrophotometer ensuring that all measurements are made within 10 minutes. Prior to taking the measurements ensure the spectrophotometer is blanked using a cuvette filled with dH<sub>2</sub>O.
7. Subtract the absorbance of the 0mg/ml samples from all measurements then construct a standard curve using the sample data.
8. Use the standard curve to calculate the protein concentration of the unknown samples.

## Solubility & Handling

Storage instructions	Room temperature
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

## Chemical Data

Kit contents	<ul style="list-style-type: none"><li>• Reagent A</li><li>• Reagent B</li><li>• Reagent C</li><li>• BCA Protein Standard</li></ul>
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