ProFoldin
10 Technology Drive, Suite 40, Number 188
Hudson, MA 01749-2791 USA
Tel: (508) 735-2539 FAX: (508) 845-9258
www.profoldin.com
info@profoldin.com

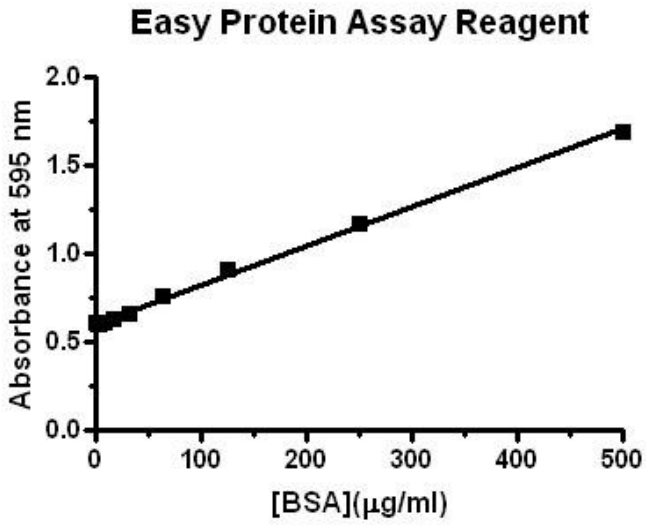
INSTRUCTIONS

ProFoldin
Easy Protein Assay Reagent

CATALOG NUMBER EPA001

INTRODUCTION

The Easy Protein Assay Reagent provides a quick and simple method to measure protein concentrations. The assay is based on protein - Coomassie Blue binding and its light absorbance 595 nm. The assay is quick and easy: simply mix the diluted reagent with 1/10 volume of the protein solution and read the light absorbance at 595 nm. Standard clear 96-well plates or cuvettes can be used for absorbance reading.



The Easy Protein Assay Reagent (Catalog number EPA001) includes 100 ml of 5 x reagent. It is for 2500 assays using 96-well plate or 500 assays using 1 ml-cuvette.

PROTOCOL

(1) Diluted 1 ml of the reagent with 4 ml of water.
(2) Mix 200 µl of the diluted reagent with 20 µl of the protein solution for measurement using 96-well plates. For measurements using 1 ml- cuvettes, mix 1 ml of the diluted reagent with 0.1 ml of the protein solution.
(3) Read the light absorbance at 595 nm ($\mathbf{A_{595}}$).

ProFoldin
10 Technology Drive, Suite 40, Number 188
Hudson, MA 01749-2791 USA
Tel: (508) 735-2539 FAX: (508) 845-9258
www.profoldin.com
info@profoldin.com

INSTRUCTIONS

Data Analysis

Plot the $\mathbf{A_{595}}$ and the protein concentration **[Protein]** to generate the linear standard curve.

$$\mathbf{A_{595} = a\ [Protein] + b}$$

Where the $\mathbf{A_{595}}$values are from experimental data, the **a** and **b** values are from the linear fitting between the $\mathbf{A_{595}}$ values and the protein concentrations.

UNKNOWN SAMPLES

Follow the same procedure to measure the $\mathbf{A_{595}}$ values from the unknown samples. Calculate the protein concentrations in the unknown samples using the A595values from the unknown samples and the **a** and **b** values from the standard curve.

$$\mathbf{[Protein] = (A_{595} - b) / a}$$