

★ Storage

Store at 4°C and protected from light.

☞ Contents

- Product manual
- Bradford (Coomassie) Protein Assay Plus Reagent 450ml

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★ Introduction

Bradford(Coomassie) Protein Assay Plus Reagent is designed for rapid and accurate estimation of total protein concentration in solution. The Bradford (Coomassie) protein assay relies on the formation of complexes between Coomassie Brilliant Blue G-250 dye and proteins in solution. This binding causes a shift in the absorption maximum of the dye from 465 nm to 595 nm. The concentration of the protein sample is determined by referencing the absorption to a series of standard protein dilutions assayed in parallel.

The quantification procedure is simple and rapid. The protein sample is mixed with the reagent at room temperature, the absorbance of the solutions is measured at 595 nm. The absorption at 595nm is proportional to the amount of protein present in the solution. The dye binding process is complete in approximately 5 min with color stability for 1 hour. The working range of the Bradford(Coomassie) Protein Assay Plus Reagent is 1 ~ 2000 ug/ml of protein.

★ Procedure

General considerations

There are four protocols for the use of Bradford(Coomassie) Protein Assay Plus Reagent. Depending on the protein concentration, standard or micro assay can be used. Depending on the volume of protein sample, the assay can be performed in test tubes or microplates.

Table 1. Assay formats.

Standard Assay	
Working range: 100-2000ug/ml Superior linear range: 125-1000 ug, BSA 125-1500 ug, BGG	
Test Tube	Microplate
20 ul sample 1 ml Bradford reagent	5 ul sample 250 ul Bradford reagent

Micro Assay	
Working range: 1-25 ug/ml Superior linear range: 1.25-10 ug, BSA 1.25-20 ug/ml, BGG	
Test Tube	Microplate
750 ul sample 750 ul Bradford reagent	120 ul sample 120 ul Bradford reagent

BSA - bovine serum albumin.

BGG - bovine gamma globulin.

* Each assay should include three types of samples:

- blank: contains reagent and dilution buffer without protein;
- protein standard: contains reagent and protein of known concentration;
- sample: contains reagent and protein of unknown concentration.

* Use the same solution for diluting both the protein standards and samples with unknown protein concentration.

* Protein solutions are typically assayed in duplicate.

★ Related Product

Product Name	Cat No
Albumin	A0100
Xpert Protease Inhibitor Cocktail Solution (100X)	P3100
Xpert Phosphatase Inhibitor Cocktail Solution (100X)	P3200
West-Q Pico Dura ECL Solution	W3653
West-Q Femto ECL Solution	W3700