FUJIFILM

Wako

Code No. 168-25911 (1 L)

Protein Assay Bradford Reagent
プロテインアッセイブラッドフォード試薬

This product is used to determine the concentration of solubilized proteins, based on the method of Bradford. The method is a quick and ready-to-use colorimetric. This product is mainly composed of Coomassie Brilliant Brue G-250 (CBB), phosphoric acid, ethanol and so on. When CBB dye binds proteins in an acidic solution, absorption maximum of the dye shifts from 465nm to 595 nm. The absorbance is linear with the concentration of solubilized proteins.

When there are reducing reagents in solutions, Bradford reagent is recommended, which is compatible with reducing reagents. However, it is not compatible with detergents.

This product is for laboratory research use only ; use in any such application is the responsibility of the user.

Preparation

Bradford Reagent

Gently mix the Bradford Reagent in the bottle.

Standard solution

Dissolve Bovine Serum Albumin into deionized water or buffer containing 0.02% Sodium Azide. Dilute Albumin Solution with the same solvent as the one used for sample solution.

Procedures

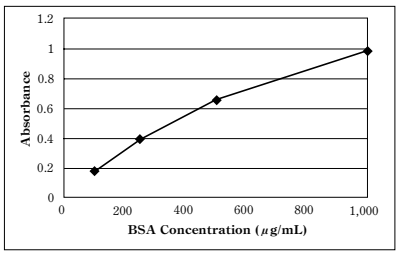
1. Gently mix the Bradford Reagent in the bottle.
2. Mix standard solution or unknown sample solution with Bradford Reagent in an appropriate ratio.
3. Incubate for 10 minutes at room temperature.
4. Measure absorbance at 595nm. Measure a blank solution, which contains only the solvent of sample, at the same time.
5. Subtract the 595 nm measurement for blank solution from the 595 nm measurement of standard solution or sample solution.
6. Prepare a standard curve by plotting the average corrected 595 nm absorbance for each standard versus its concentration in μg/mL. Use the standard curve to determine the protein concentration of each unknown sample.

Example of Assay

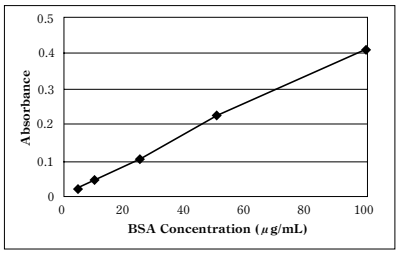
	(1)	(2)	(3)
	test tube	test tube	micro plate
Measurement range	100～1,000 μg/mL	6.25～100 μg/mL	0.78～25 μg/mL
Standard solution or Sample solution	10 μL	20 μL	150 μL
Bradford Reagent	500 μL	380 μL	150 μL
Reaction	Incubate for 10 minutes at room temperature		
Measurement	Within 1 hour, measure absorbance at 595 nm.		

Assay Data

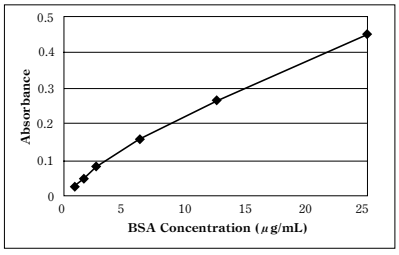
(1)



(2)



(3)



Compatibility Chart

This assay was mixed 10 μL of BSA sample with 500 μL of Bradford Reagent. The concentration listed below is the maximum amount of compatible, which can be present in the protein sample without interference.

Substances	Compatible Concentration
CHAPS	5%
Triton X-100	0.1%
Tween 20	0.1%
SDS	＜0.025%
NP-40	＜0.1%
Ethanol	10%
Glycerol	20%
Methanol	10%

Storage : Store at 2～10℃.

Package : 1 L

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