Bradford Protein Assay Kit

Cat No: BIOK1997

PRODUCT INFORMATION:

Component	Product Specifications		Storage
	250T	1000T	
Bradford 蛋白染色液	50ml	200ml	4℃
蛋白标准品	1ml(5mg/ml)	2*1ml(5mg/ml)	-20℃

This kit is valid for one year

PRODUCT INTRODUCTION

Bradford protein concentration assay is one of the most commonly used methods for measuring protein concentration with high sensitivity. (Arginine) After binding in an acidic medium, the solution turns blue, and the maximum absorption peak of the dye shifts from 465nm to 595nm, and the measured absorbance value is positively correlated with the protein concentration; the absorbance of the protein at 595nm can be measured by measuring the absorbance at 595nm. , the protein concentration was estimated, and then the quantitative determination was carried out.

This method calculates the protein concentration through the absorbance value, and realizes the rapidity and simplicity of the protein concentration determination. High sensitivity, approximately four times higher than the Lowry method, fast and simple assay, requires only one reagent, and is not affected by chemical reagents in most samples.

PRECAUTIONS

1. Before using Bradford staining solution, it needs to be returned to room temperature, which is beneficial to improve the sensitivity of detection; and mix well before use

2. The standard curve also has a slight nonlinearity, so it cannot be calculated by Beer's law, but can only be used to determine the concentration of unknown proteins; in order to

obtain more accurate results, each protein gradient and sample needs to be replicated. A standard curve must be established for each experiment

3. The Bradford method has a good compatibility with most chemical substances, such as the compatibility with the reducing agent DTT up to 5mM; but it will be affected by a slightly higher concentration of detergent, make sure that the SDS is less than 0.01%, Triton X-100 is lower than 0.05%, Tween 20/ 60/80 is lower than 0.015%, etc.

4. For your safety and health, please wear a lab coat and disposable gloves to operate

INSTRUCTIONS FOR USE

Ⅰ. To prepare a BSA standard system (linear range 100-1500ug/ml):

You can refer to the following table to prepare standard gradients with different concentrations, and mix them well to avoid bubbles:

Numbering	V Diluent (ul)	V Standard (ul)	BSA final concentration (ug/ml)
1	70ul	标准品 30ul	1500ug/ml
2	30ul	从 1 管取 60ul	1000ug/ml
3	20ul	从 2 管取 60ul	750ug/ml
4	30ul	从 3 管取 60ul	500ug/ml
5	60ul	从 4 管取 60ul	250ug/ml
6	60ul	从 5 管取 60ul	125ug/ml
7	30ul	0ul	0ug/ml

In principle, the standard dilution should be the same as that of the protein sample, but it can also be diluted with distilled water, normal saline or PBS

Ⅱ. Protein Concentration Determination:

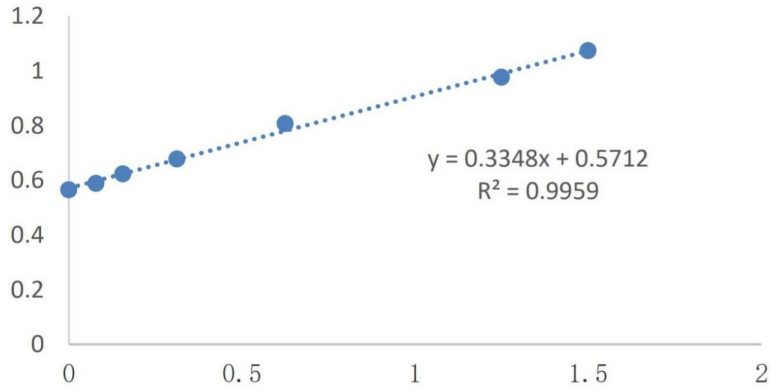
(1) Add 5μl of protein standards of different concentrations and samples to be tested to the 96-well plate respectively; if the sample is insufficient, it can be diluted with diluent, but the sample dilution ratio must be recorded

(2) Add 200μl G250 staining solution to each well, shake and mix well, and incubate at room temperature for 2-3min

(3) Measure the absorbance at 595nm with a microplate reader

(4) Take the standard protein concentration (ug/ml) as the abscissa, and use the OD value to draw the standard curve on the ordinate. According to the measured A595 value of the sample to be tested, the protein concentration of the sample can be obtained, and then the quantitative calculation can be carried out.

Reference Standard Curve:



BSA concentration (mg/ml)

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