Differentiating Research

Product Details

BRADFORD PLUS

With Standard Dilution Free BSA Samples

Product Overview

The DX/DT Bradford Plus Reagent is a quick and ready-to-use modification of the well-known Bradford Coomassie-binding, colorimetric method for total protein quantitation. When Coomassie dye binds protein in an acidic medium, an immediate shift in absorption maximum occurs (from 465 nm to 595 nm) with a color change from brown to blue. This kit includes pre-diluted bovine serum albumin (BSA) protein standards , enabling dilution free standard preparation. The assay is simple: mix a small amount of protein sample with the DX/DT Bradford Plus Reagent, incubate briefly, and measure absorbance at 595 nm. Protein concentrations are estimated by comparing absorbances to those of standard protein dilutions, with a standard curve required due to the non-linear color response of Coomassie with increasing protein concentrations.

Catalog Details

RC38-1	100 mL
RC38-2	1L

STORAGE

4 ℃

Discard immediately, if any growth/ contamination is observed.

Pack Contains

- Bradford plus reagent
- BSA Standard - 0.125mg/ml, 1 ml X 2 Vials
- BSA Standard - 0.25mg/ml, 1 ml X 2 Vials
- BSA Standard - 0.5mg/ml, 1 ml X 2 Vials
- BSA Standard - 0.75mg/ml, 1 ml X 2 Vials
- BSA Standard - 1mg/ml, 1 ml X 2 Vials
- BSA Standard - 1.5mg/ml, 1 ml X 2 Vials
- BSA Standard - 2mg/ml, 1 ml X 2 Vials

Microplate procedure

Working range = 125-1,500 µg/mL

1. Warm up the spectrophotometer.
2. Pipet seven different concentrations [0.125mg/ml, 0.25mg/ml, 0.5mg/ml, 0.75mg/ml, 1mg/ml, 1.5mg/ml, 2mg/ml] of **10µl** BSA standards into separate wells. For blank reading, add 10µl of nuclease free water.
3. Add 250ul of Bradford Reagent to each well. Mix the plate for 30 seconds.
4. Remove plate from shaker. Incubate plate for 10 minutes at room temperature.
5. Measure the absorbance of each sample at 595 nm. Subtract average absorbance value from blank with all standards and unknown sample.
6. Prepare a standard curve by plotting the average blank-corrected 595 nm measurement for each BSA standard vs. its concentration in µg. Determine the concentration of unknown by using the standard curve model fit.

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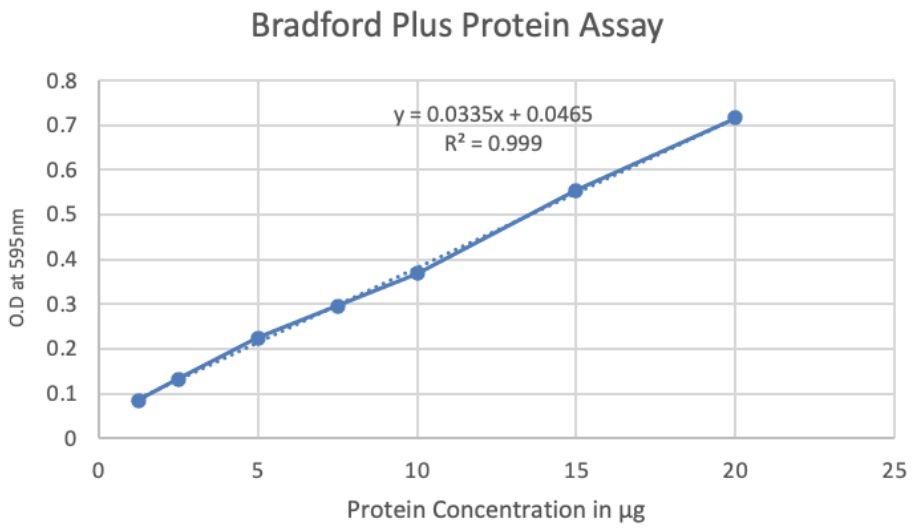
Standard curve (Example only)

BSA/ Protein sample	Amount of BSA to be added	Bradford Reagent	OD at 595nm
Blank	-	250ul	0
0.125mg/ml	10 µl	250ul	0.085
0.25mg/ml	10 µl	250ul	0.132
0.5mg/ml	10 µl	250ul	0.225
0.75mg/ml	10 µl	250ul	0.295
1mg/ml	10 µl	250ul	0.369
1.5mg/ml	10 µl	250ul	0.554
2mg/ml	10 µl	250ul	0.717



Our other products

- Polaris SYBR Green Mastermix
- cDNA Synthesis Mastermix and Kits
- VEGA OneStep Mastermix
- DNA Markers
- LEO and LEOPRIME Mastermixes
- POLARIS AMP Taqman probe mastermix
- Proteinase K
- PNGase F Enzyme

Our Expert Services

- Gene synthesis
- Guide RNA synthesis
- Antibody production
- Probes & Oligopool synthesis
- CRISPR KO Vectors
- Expression in Bacteria, Mammalian Cells
- CRISPR Cas9 Designs for sgRNA
- Peptide Synthesis

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