

## Bovine Serum Albumin Standard (5 mg/mL)

### Introduction

The BSA standard is a high-quality calibrator widely used for establishing standard curves and calibration controls in total protein determination assays. BSA is commonly employed as the calibration protein for total protein quantification. This standard can be used as a protein concentration calibration standard in BCA, Bradford, or other protein assays, as a protein recovery control for desalting and other chromatography column procedures, and for general calibration of spectrophotometer UV lamps (absorbance at 280 nm). The concentration of this standard is 5 mg/mL.

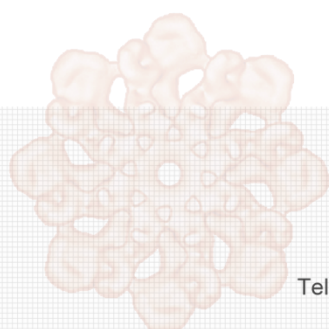
### Protocol

Prepare according to the requirements of the standard curve. For example, prepare seven protein standard solutions at concentrations of 0, 0.125, 0.25, 0.5, 0.75, 1, and 1.5 mg/mL as shown in the table below. Ensure thorough mixing after each dilution. If necessary, an additional protein standard at 0.0625 mg/mL can be included.

Tube	Diluent Volume (e.g., H <sub>2</sub> O)	Standard Volume (BSA)	Final Concentration
A	70 $\mu$ L	30 $\mu$ L of 5 mg/mL BSA	1.5 mg/mL
B	30 $\mu$ L	60 $\mu$ L from tube A	1 mg/mL
C	20 $\mu$ L	60 $\mu$ L from tube B	0.75 mg/mL
D	30 $\mu$ L	60 $\mu$ L from tube C	0.5 mg/mL
E	60 $\mu$ L	60 $\mu$ L from tube D	0.25 mg/mL
F	60 $\mu$ L	60 $\mu$ L from tube E	0.125 mg/mL
G	60 $\mu$ L	0 $\mu$ L	0 mg/mL

### Note

1. This product is for research use only.



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