

## Measurement of Total Protein by a Spectrophotometer

### Question

Using a spectrophotometer, you determine the total protein concentration of a sample. The only standard you have is bovine serum albumin (BSA). You measure the absorbance of the standard and the sample at 660 nm. The results are shown in the table below.

### Table

Sample	Concentration (mg/ml)	Absorbance at 660 nm
BSA	1.0	0.15
BSA	2.0	0.30
BSA	3.0	0.45
BSA	4.0	0.60
BSA	5.0	0.75
BSA	6.0	0.90
BSA	7.0	1.05
BSA	8.0	1.20
BSA	9.0	1.35
BSA	10.0	1.50
Sample	Unknown	0.85

### Estimated Answer