

## Measurement of Total Protein by a Spectrophotometer

### Question

Using a spectrophotometer, you determine the protein concentration of a sample. The only problem is you do not know the concentration of the standard solution you used for the blank. What is the protein concentration?

### Table

Wavelength (nm)	Optical Density
280	0.15
280 (Standard)	0.15 (0.15 mg/ml)
280	0.25
280 (Standard)	0.25 (0.25 mg/ml)
280	0.35
280 (Standard)	0.35 (0.35 mg/ml)
280	0.45
280 (Standard)	0.45 (0.45 mg/ml)
280	0.55
280 (Standard)	0.55 (0.55 mg/ml)
280	0.65
280 (Standard)	0.65 (0.65 mg/ml)
280	0.75
280 (Standard)	0.75 (0.75 mg/ml)
280	0.85
280 (Standard)	0.85 (0.85 mg/ml)
280	0.95
280 (Standard)	0.95 (0.95 mg/ml)

### Additional Information