

Measurement of Total Protein by a Single Scan

Question

Using a standard curve, determine the total protein content (mg/ml) of a sample. Assume that the absorbance of the sample is 0.45. The only difference between the sample and the standard is the concentration of the protein. Assume that the sample is a 10% solution.

Table

Standard Concentration (mg/ml)	Absorbance
0.0	0.00
0.5	0.10
1.0	0.20
1.5	0.30
2.0	0.40
2.5	0.50
3.0	0.60
3.5	0.70
4.0	0.80
4.5	0.90
5.0	1.00
5.5	1.10
6.0	1.20
6.5	1.30
7.0	1.40
7.5	1.50
8.0	1.60
8.5	1.70
9.0	1.80
9.5	1.90
10.0	2.00

Standard Deviation