

Measurement of Total Protein by a Student

Question

Using a standard curve, a student has determined that a sample contains approximately 0.0001 mg of protein. The only instrument capable of measuring this amount is a microcentrifuge. How much sample should the student use to measure the protein?

Table

Protein Concentration (mg/ml)	Optical Density
0.0001	0.0001
0.0002	0.0002
0.0003	0.0003
0.0004	0.0004
0.0005	0.0005
0.0006	0.0006
0.0007	0.0007
0.0008	0.0008
0.0009	0.0009
0.0010	0.0010
0.0011	0.0011
0.0012	0.0012
0.0013	0.0013
0.0014	0.0014
0.0015	0.0015
0.0016	0.0016
0.0017	0.0017
0.0018	0.0018
0.0019	0.0019
0.0020	0.0020

Standard Deviation