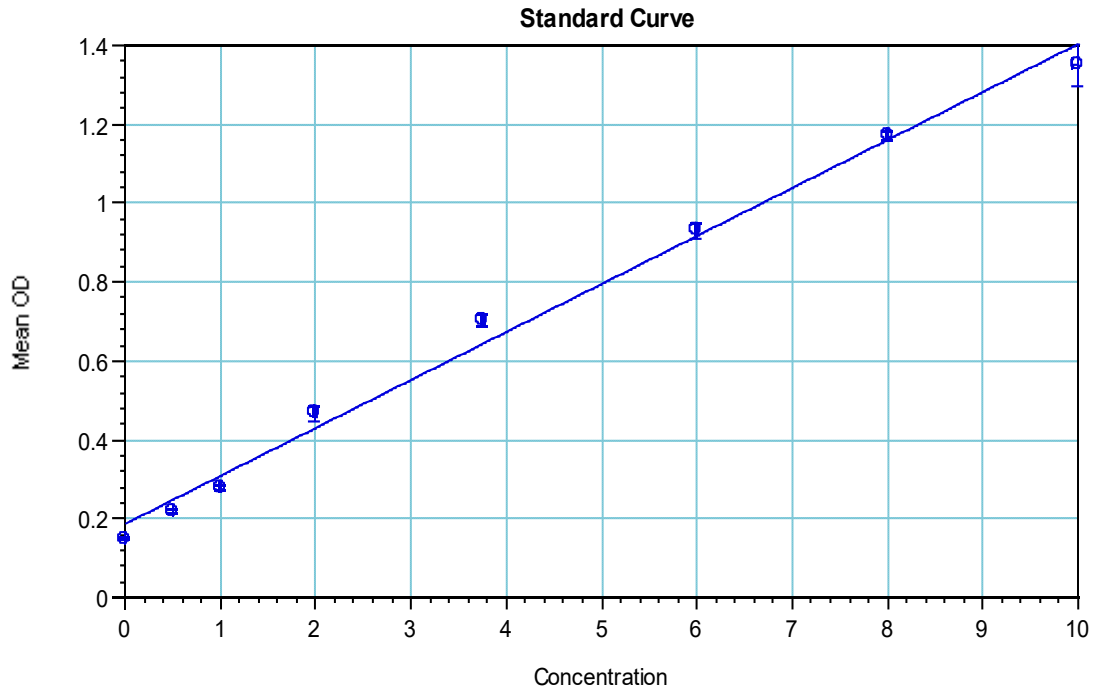


2024-2025 Genetic Trait Purity PT - Answer Key

- 1.) Based on the following data from a completed quantitative DAS ELISA, determine the mean absorbance of each sample. Calculate the concentration of each based on those means.



Sample	Optical Density	Average OD	Concentration
1a	0.219	0.227	0.357 or 0.361
1b	0.234		
2a	0.434	0.423	1.967
2b	0.412		
3a	0.364	0.375	1.570 or 1.574
3b	0.385		
4a	0.473	0.487	2.488 or 2.492
4b	0.500		
5a	0.463	0.448	2.168 or 2.172
5b	0.432		
6a	0.584	0.595	3.377
6b	0.606		
7a	0.167	0.168	-0.123, <LOD as OD is <A (0.183) aka y-intercept or 0
7b	0.169		
8a	0.163	0.163	-0.164, <LOD as OD is <A (0.183) aka y-intercept or 0
8b	0.163		

2024-2025 Genetic Trait Purity PT - Answer Key

- 2.) An enzyme which has lost the ability to function due to heating or improper pH is said to be:
a) chemically challenged b) disrupted c) acidotic **d) denatured**
- 3.) Name the two kinds of antibodies:
Monoclonal
Polyclonal
- 4.) ELISA stands for ____ **Enzyme-Linked Immunosorbent Assay** ____.
- 5.) The phenotype of an organism refers to its:
a) genetic makeup **b) appearance** c) ability to reproduce d) enzymatic structure