Lab 6 – Gel Electrophoresis Extra Credit

10 points possible

Exercises:

1. Use a standardized DNA marker of known DNA fragment sizes to design a standard curve.
2. Apply the standard curve to estimate fragment size of your PCR fragment product

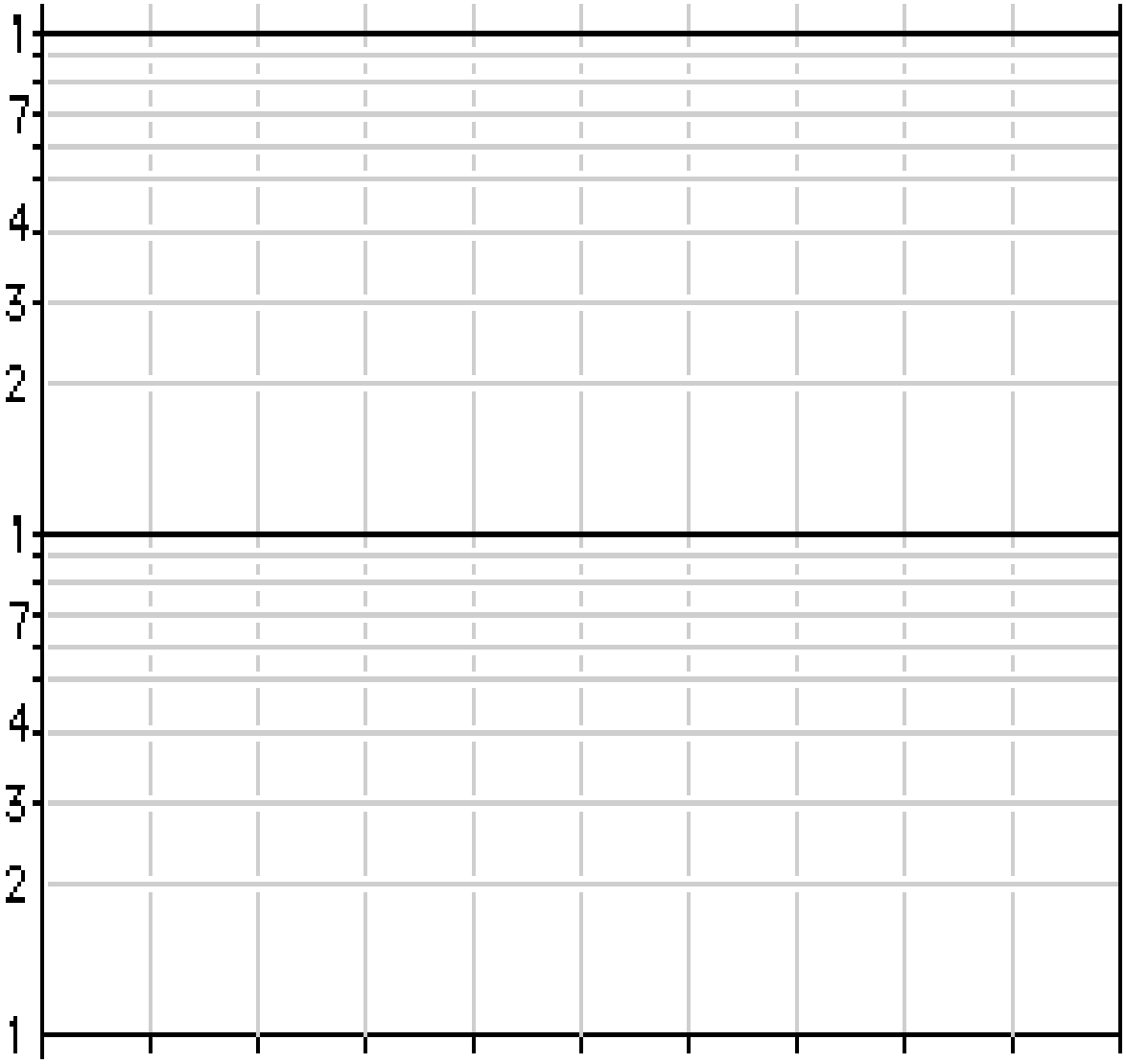
<u>Exercise 1:</u>

(6pts)

1. Print out the picture of the gel from class with your PCR product results.
2. Using the lanes marked DNA Marker, measure from the wells the distance in **mm** each DNA marker band traveled and note the distance traveled in the tables below.
3. Draw a standard curve using the semi-log graph provided below. Must include proper axis labels and graph title.

Standard DNA Marker	
Fragment size (bp)	**Migration distance (mm)**
10,000	
8,000	
6,000	
5,000	
4,000	
3,000	
2,500	
2,000	
1,500	
1,200	

Standard DNA Marker	
Fragment size (bp)	**Migration distance (mm)**
1,000	
900	
800	
700	
600	
500	
400	
300	
200	
100	



Exercise 2.

(4 pts)

1. Using the correctly made standard curve above approximate the size of your PCR product. Draw on the graph how you obtained the size to receive full credit.

Approximate size of PCR product _____