Protein Molecular Weight Exercise

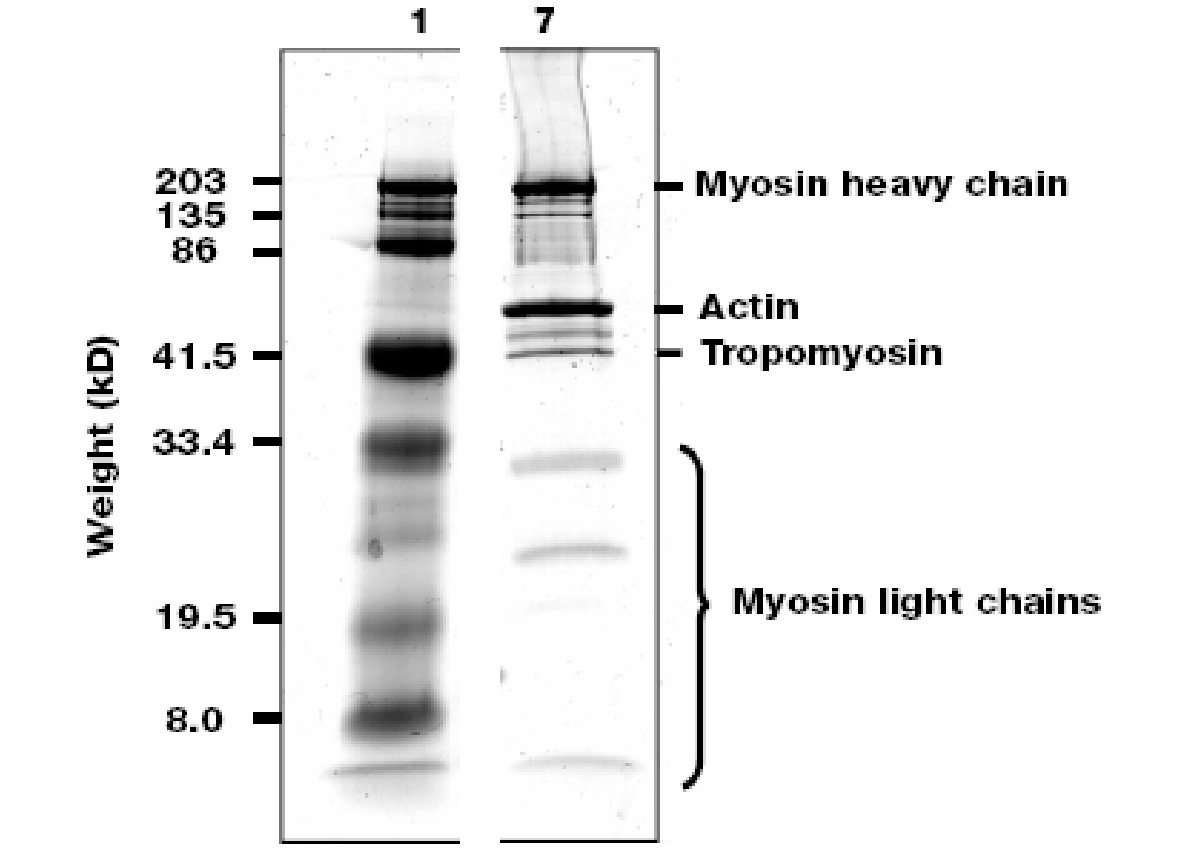
Your job, should you choose to accept it, is to determine the MW of the Myosin Heavy chain, the first two Myosin light chains, Actin and tropomyosin using a standard curve.

For the Kaleidoscope Standard (lane 1):

- Measure the distance in centimeters (or what ever you choose) that each of the 7 bands in the standard travels from the well (top of the plot) and record it in the table below.
- Prepare a standard curve of distance traveled versus log of the molecular weight for the Kaleidoscope standard (lane 1).

For the Actin/Myosin Standard (lane 7):

- Measure the distance in centimeters (or whatever you used for the standard) that the single actin band, the single heavy myosin band, the first two light myosin bands and the Tropomyosin travel from the well and record it in the table below.
- Using the standard curve for the Kaleidoscope standard, determine the molecular weight of each band.



	Kaleidoscope Standard		**Lane 7**		
Band	Dist. (mm)	Actual Size (kDa)	Dist. (mm)	Approx Size (kDa)	
1		**203**			Myosin Heavy
2		**135**			Actin
3		**86**			Tropomyosin
4		**41.5**			Myosin Light #1
5		**33.4**			Myosin Light #1
6		**19.5**			
7		**8.0**			