

Toothpickase Activity

Time (seconds)	[Broken Toothpicks]				Noncompetitive Inhibition
	Control	Competitive Inhibition			
		(10mg)	(20mg)	(40mg)	
0	0				
30	12				
60	19				
90	28				
120	35				
150	39				
180	40				
210	40				
240	40				
Overall Reaction Rate					
Reaction Rate 0-30 sec					
Reaction Rate 210-240 sec					

Reaction Rate Calculations:

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \frac{\text{\# of Toothpicks Broken}}{\text{Change in Time}}$$