

## Substrate Concentration & Reaction Rate Lab Report

**Research Question:** How does the concentration change in the starch (substrate) effect the reaction rate of amylase (enzyme) ?

### **Background Information:**

Enzyme is a globular protein that increases the rate of a biochemical reaction by lowering the activation energy. The activation energy pertains to the energy needed to initiate a reaction. As the substrate approaches the enzyme, it changes shape to fit the substrate. This stresses the substrate, reducing the activation energy of the reaction.

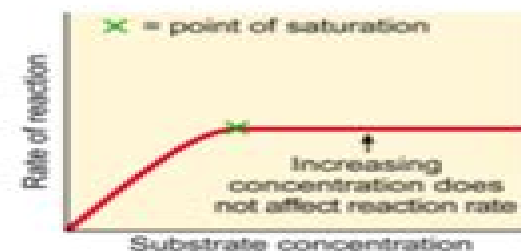
In exothermic reaction, energy is released but in endothermic reaction, energy is used. However, both in exothermic and endothermic reaction when enzyme is used their activation energy decreases.

Starting from 9<sup>th</sup> grade, I have wondered the correlation between enzymes and substrates. I haven't had the chance to further investigate this relationship to this date. I feel the pleasure of having the opportunity to conduct an experiment on this topic.

**Hypothesis:** As the starch (substrate) concentration increases, the reaction rate of amylase will increase for a certain limit.

Table 1: Variables Selected for this Experiment

		Units	Range	Method for Control
Independent Variable	Starch (Substrate) Concentration	g (grams)	0.5-3.5g	Balance & Graduated Cylinder
Dependent Variable	Rate of reaction	cm (centimeter)	(0-2)	Ruler



# Concentration And Reaction Rate Lab Manual

**Mark Steyvers**



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