

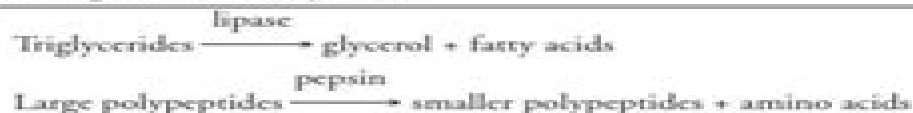
Enzymes and Cellular Regulation

What are the factors that regulate the rate at which enzymes catalyze reactions?

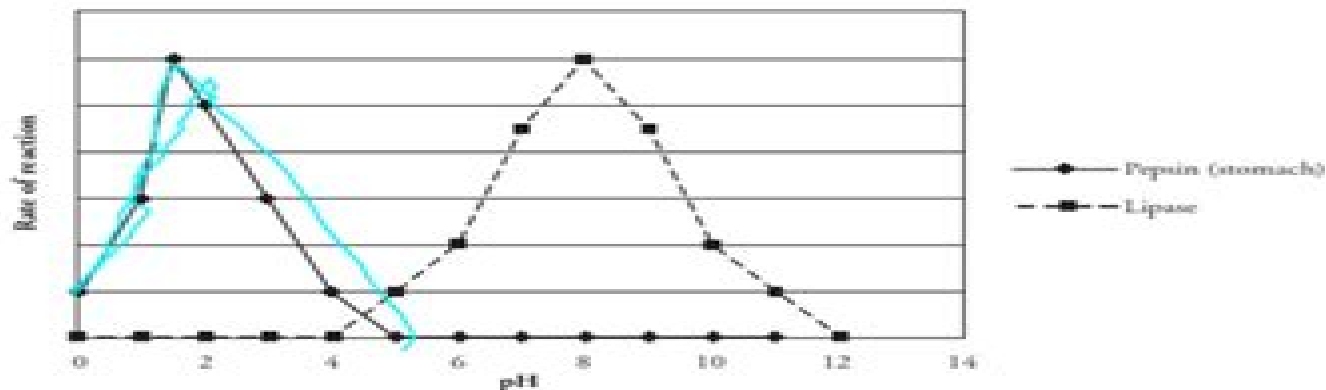
Why?

Digestive enzymes are protein-based biological catalysts that play important roles in our lives. They help remove stains from our shirts, turn milk into cheese, and are responsible for turning our dinner into useable fuel for our bodies. Enzymes however do not work well universally. Some are meant to work at high temperatures, others at low temperatures. They may work best in acidic conditions or neutral conditions. In this activity we will look at the optimal conditions for two different enzymes. The digestive enzyme lipase is made in the pancreas and breaks down lipids in the small intestine, while pepsin breaks down proteins in the stomach.

Model 1 – Two Digestive Enzymes



Effect of pH on Enzyme Activity



1. Name the two enzymes illustrated in Model 1.
Pepsin and lipase
2. Consider the information provided in the *Why?* box and in Model 1 about these proteins.
 - a. In which body organ is pepsin active?
The stomach
 - b. In which body organ is pancreatic lipase active?
The pancreas

Enzymes And Cellular Regulation Pogil Key

Lloyd Wolfinbarger, Jr.



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Molecular and Cellular Regulation of Enzyme Activity ,1984 **Molecular and cellular regulation of enzyme activity** 10 b85,1984 **Molecular and Cellular Regulation of Enzyme Activity** Alfred Barth,Universität (Halle, Saale),1987 *Molecular and Cellular Regulation of Enzyme Activity* ,1984 **Molecular and cellular regulation of enzyme activity** 11 B84,1984 **Current Topics in Cellular Regulation** ,1984 *Advances in Enzyme Regulation...* ,1964 **Enzyme Regulation in Metabolic Pathways** Lloyd Wolfinbarger, Jr.,2017-04-17 Enzyme Regulation in Metabolic Pathways shows the reader how to understand the roles of enzymes and their kinetic constants in intermediary metabolism It provides a means of correlating data obtained in experimental studies to multiple possible mechanisms through which some enzyme may catalyze the conversion of a substrate to a product Although not the most appropriate means of determining some potential kinetic mechanism quasi equilibrium assumptions are used throughout the book keeping the rate equation derivations simple Actual metabolic pathways with known presumed positive and negative regulation events are linked to these potential kinetic mechanisms using both rate equation derivations and data plots illustrating how the rate equation derivations can be used to explain the data plots This book will be a valuable reference for students in biological sciences and biochemistry majors required to take a core course in enzymology **Mechanism of Action and Regulation of Enzymes** Federation of European Biochemical Societies,1975 **Control of Enzyme Activity** Philip Cohen,1976

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