

## Enzymes and Cellular Regulation

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

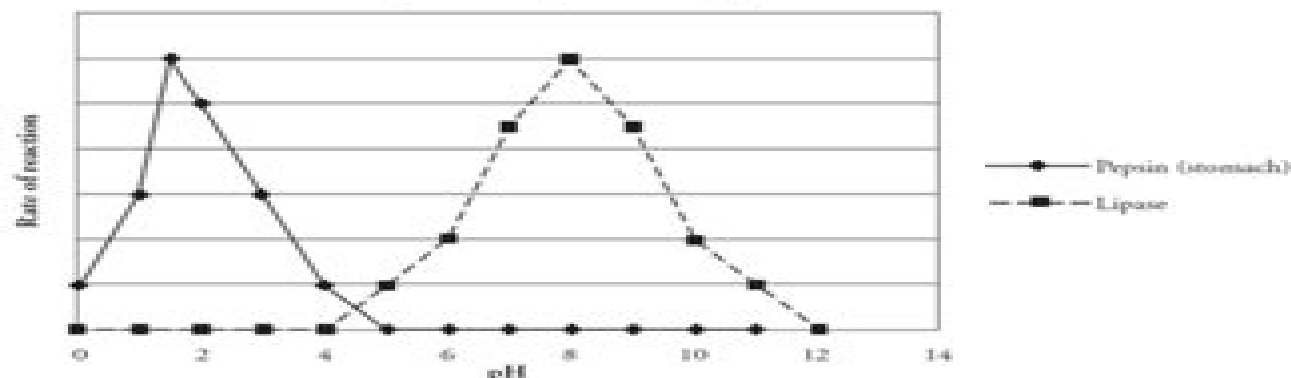
### Why?

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**



- Name the two enzymes illustrated in Model 1.
- Consider the information provided in the *Why?* box and in Model 1 about these proteins.
  - In which body organ is pepsin active?
  - In which body organ is pancreatic lipase active?
- For each enzyme in Model 1, circle the pH that best represents the environment in which the enzyme is most active.
 

Pepsin	1.5                      8	10.4
Lipase	1.5                      8	10.4
- Compare the rate of the pepsin-catalyzed reaction at pH 1.5 with the rate of the lipase-catalyzed reaction at pH 1.5.
- Compare the rate of the pepsin-catalyzed reaction at pH 8 with the rate of the lipase-catalyzed reaction at pH 8.
- Using your knowledge of protein structure, explain in detail the effect of exposing an enzyme to a pH outside of its optimal range. Include the effect on both enzyme structure and function.
- At what pH values is lipase likely to be denatured? Justify your answer.
- At what pH values is pepsin likely to be denatured? Justify your answer.
- In addition to being produced in the pancreas, lipase is also produced in the stomach. Is the structure of pancreatic lipase the same as gastric (produced in the stomach) lipase? Justify your reasoning.

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