

Enzyme Lab Questions  
AP Biology

1. What is the function of enzymes in a living system?
2. What are examples of how the rate of reaction of an enzyme can be increased or decreased based on environmental conditions? Explain how those conditions would impact the functionality of an enzyme.
3. Large amounts of catalase are found in the human liver. Would a human break down more hydrogen peroxide in summer or winter? Explain your answer.
4. Amylase is an enzyme that aids in digestion of starches and has an ideal temperature range of 35-40 degrees Celsius (near human body temperature). Predict what would happen to the rate of amylase activity at 25 degrees Celsius. What would happen at 55 degrees Celsius?
5. There is a family of enzymes known as proteases that catalyze a reaction breaking down proteins. What would happen if you added a protease to the sample before proceeding with the experiment? Explain.

Enzyme Lab Questions  
AP Biology

1. What is the function of enzymes in a living system?
2. What are examples of how the rate of reaction of an enzyme can be increased or decreased based on environmental conditions? Explain how those conditions would impact the functionality of an enzyme.
3. Large amounts of catalase are found in the human liver. Would a human break down more hydrogen peroxide in summer or winter? Explain your answer.
4. Amylase is an enzyme that aids in digestion of starches and has an ideal temperature range of 35-40 degrees Celsius (near human body temperature). Predict what would happen to the rate of amylase activity at 25 degrees Celsius. What would happen at 55 degrees Celsius?
5. There is a family of enzymes known as proteases that catalyze a reaction breaking down proteins. What would happen if you added a protease to the sample before proceeding with the experiment? Explain.