

**THE EFFECTS OF  
TEMPERATURE ON ENZYME ACTIVITY**

**AIM:** To determine the effect of temperature on the rate of an enzyme-catalysed reaction.

**APPARATUS:**  
 - Thermometer  
 - Stopwatch  
 - Test-tubes  
 - Water bath

**REAGENTS:**  
 - Hydrogen peroxide  
 - Potassium manganate(VII)  
 - Dilute sulphuric acid

**PROCEDURE:**

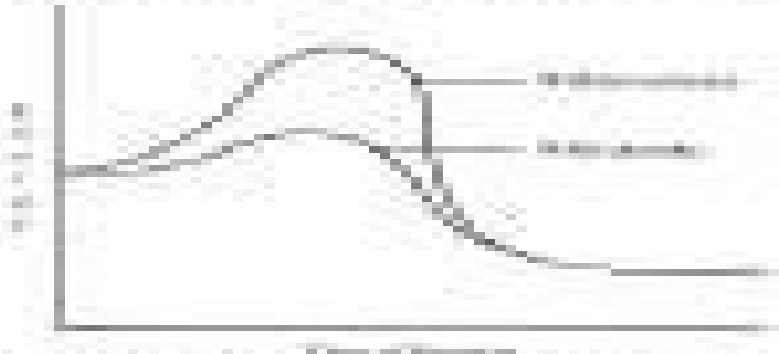
1. Prepare a series of test-tubes containing different volumes of hydrogen peroxide. Add a fixed volume of potassium manganate(VII) solution to each test-tube. The reaction will be catalysed by the potassium manganate(VII) solution.

2. Place the test-tubes in a water bath at a constant temperature. Record the time taken for the reaction to complete. Repeat the experiment at different temperatures.

3. Plot a graph of the rate of reaction (measured as the volume of oxygen gas evolved) against the temperature. The graph will show a bell-shaped curve. The rate of reaction increases with temperature up to a certain point, after which it decreases. This is because the enzyme becomes denatured at high temperatures.

4. The optimum temperature for the enzyme is the temperature at which the rate of reaction is at its maximum. This is the temperature at which the enzyme is most active.

**Figure 1. A graph showing the effect of temperature on the rate of an enzyme-catalysed reaction.**



Enzymes are sensitive to changes in temperature. They are most active at a certain temperature, known as the optimum temperature. At temperatures above the optimum, the enzyme becomes denatured and its activity decreases. At temperatures below the optimum, the enzyme is less active because the molecules have less energy to overcome the activation energy barrier. The graph shows that the rate of reaction is highest at the optimum temperature and lowest at the extremes of the temperature range.

Enzymes are affected by the pH of the solution. Each enzyme has a specific pH at which it is most active. This is known as the optimum pH. At pH values above or below the optimum, the enzyme becomes denatured and its activity decreases.

Enzymes are also affected by the concentration of the substrate. The rate of reaction increases with the concentration of the substrate up to a certain point, after which it levels off. This is because the enzyme becomes saturated with substrate molecules.

# Bio 123 Lab Manual Answers

**Rajesh Kumar**



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