

Enzyme and Temperature

Background

For the experiment an enzyme (catalase) breaking down hydrogen peroxide when heated at various temperatures.

Introduction

Enzymes are biological catalysts. They are made of proteins and speed up chemical reactions. Enzymes are sensitive to temperature. If the temperature is too high, the enzyme will denature and stop working. If the temperature is too low, the enzyme will not work as fast. The optimal temperature for an enzyme is the temperature at which it works best.

Equipment

Enzyme solution, Hydrogen peroxide, Water, Test tubes, Test tube rack, Stopwatch, Thermometer.

Procedure

Temperature	Enzyme solution	Hydrogen peroxide
20°C	10 ml	10 ml
30°C	10 ml	10 ml
40°C	10 ml	10 ml

Observations

Time	Observation	Time	Observation	Time	Observation
0 min	0 bubbles	0 min	0 bubbles	0 min	0 bubbles
1 min	1 bubble	1 min	2 bubbles	1 min	3 bubbles
2 min	2 bubbles	2 min	4 bubbles	2 min	5 bubbles
3 min	3 bubbles	3 min	6 bubbles	3 min	7 bubbles

At 20°C, the enzyme solution produced 3 bubbles in 3 minutes. At 30°C, the enzyme solution produced 6 bubbles in 3 minutes. At 40°C, the enzyme solution produced 7 bubbles in 3 minutes. The results show that the enzyme works best at 40°C.

Conclusion

Temperature	Enzyme solution	Hydrogen peroxide
20°C	10 ml	10 ml
30°C	10 ml	10 ml
40°C	10 ml	10 ml

Discussion

Temperature	Enzyme solution	Hydrogen peroxide
20°C	10 ml	10 ml
30°C	10 ml	10 ml
40°C	10 ml	10 ml

The results show that the enzyme works best at 40°C. This is because the enzyme is most active at this temperature.

Graph



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JE Gale



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