

Enzyme and Temperature

Background

For the experiment an enzyme called catalase, breaking down hydrogen peroxide, was used. All enzymes are proteins.

Introduction

Enzymes are proteins that increase the rate of a chemical reaction (catalysis). They are called biological catalysts. As catalysts, enzymes are not used up in the reaction. They are not consumed and can be used over and over again. They are also not changed by the reaction. They are not used up in the reaction.

Key Concepts

Enzymes are biological catalysts that speed up chemical reactions.

Variables

Independent	Dependent	Controlled
Temperature	Rate of reaction (measured by volume of oxygen gas produced)	Amount of substrate (hydrogen peroxide), Amount of enzyme (catalase), pH of the solution

Procedure

Step 1	Step 2	Step 3
		
Preparation of catalase solution	Addition of hydrogen peroxide	Measurement of oxygen gas production

1. Preparation of catalase solution: A solution of catalase was prepared by adding 10 ml of distilled water to 10 ml of 1% catalase solution. The solution was then added to a test tube.

2. Addition of hydrogen peroxide: 10 ml of 3% hydrogen peroxide solution was added to the test tube.

3. Measurement of oxygen gas production: The volume of oxygen gas produced was measured by the displacement of water in an inverted graduated cylinder.

Results

Time (min)	Volume of oxygen gas produced (ml)
0	0
1	10
2	20
3	30
4	40
5	50

Discussion

Time (min)	Volume of oxygen gas produced (ml)
0	0
1	10
2	20
3	30
4	40
5	50

Enzymes are biological catalysts that speed up chemical reactions. In this experiment, catalase was used to break down hydrogen peroxide into water and oxygen gas.

Conclusion

Time (min)	Volume of oxygen gas produced (ml)
0	0
1	10
2	20
3	30
4	40
5	50

Ccbc Biol 110 Lab Manual Enzymes Results

Christian Drosten



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