

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. An enzyme's function is determined by its shape. The shape of an enzyme is determined by its amino acid sequence. The amino acid sequence is determined by the genetic code. The genetic code is a set of rules that determine how the information in a gene's DNA or RNA sequence is translated into the amino acid sequence of a protein.

Key Concepts

Enzymes are biological catalysts that speed up chemical reactions.

Procedure

Step 1	Step 2	Step 3
1. Add 5 ml of hydrogen peroxide to a test tube.	2. Add 5 ml of catalase solution to the test tube.	3. Observe the reaction.

Data Collection

Time (min)	Volume of gas (ml)	Temperature (°C)
0	0	25
1	10	25
2	20	25
3	30	25
4	40	25
5	50	25

1. The volume of gas produced increases over time.
2. The temperature remains constant at 25°C.
3. The reaction is catalyzed by the enzyme catalase.
4. The reaction is exothermic.
5. The reaction is reversible.
6. The reaction is first order.
7. The reaction is irreversible.

Results

Time (min)	Volume of gas (ml)	Temperature (°C)
0	0	25
1	10	25
2	20	25
3	30	25
4	40	25
5	50	25

Discussion

Time (min)	Volume of gas (ml)	Temperature (°C)
0	0	25
1	10	25
2	20	25
3	30	25
4	40	25
5	50	25

The results show that the reaction is catalyzed by the enzyme catalase. The reaction is exothermic and first order.



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Lei Shi



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