

The effects of enzyme concentration, temperature and pH on enzyme activity

Introduction:

According to Campbell, enzyme is a catalytic protein which can speed up metabolic or anabolic reaction by lowering activation energy and is not consumed in the reaction (Campbell, 2002). Enzymes are used widely in our daily life, for example, beer brewing, bread baking, fructose producing, even in our bodies for example the digestion system, there are a great number of enzymes (Campbell, 2002). Thus, in order to make the best use of enzyme in our daily life, it is very important for us to understand the way enzymes work.

There are many factors that can affect enzyme activity, for example, the concentration of enzyme in the solution, the temperature of the surrounding and the pH of the solution. Under each of these situations, enzymes may have different levels of activities (Campbell, 2002).

In our experiment, the aim is to examine the effects of enzyme concentration, temperature and pH on enzyme activity. To achieve this aim, we have chosen a common catalytic reaction—breaking down of starch to maltose by the enzyme called amylase. The enzyme amylase occurs in many organisms, such as bacteria, fungi and mammals. The amylase in our experiment is extracted from a fungus (Adam, 2004). We need to construct a standard curve in the first step, and then follow steps to find out the relationships between enzyme concentration, temperature, pH and enzyme activity.

Methods:

Refer to Bios1201 laboratory manual (Adam, 2004). In the part of 'effect of temperature on enzyme activity' in practical 7, the exact temperature used was 1, 16, 24, 34, 43, 58 °C instead of 0, 15, 25, 35, 45, 60 °C.

Results:

The effects of enzyme concentration enzyme activity:

The starch concentrations and absorbance recorded with 1ml of 0.1mg/ml amylase in 4ml starch and 7ml buffer, under different time intervals are shown in table 1 below:

Absorbance and concentration						starch
Time (min)	0	1	2	3	5	10
Absorbance		0.93		0.84	0.74	0.57
Starch conc. (%)	0.083	0.07	0.063	0.056	0.043	0.023

Table-1

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1. Understanding the eBook Enzyme Action Lab Report Results
 - The Rise of Digital Reading Enzyme Action Lab Report Results
 - Advantages of eBooks Over Traditional Books
2. Identifying Enzyme Action Lab Report Results
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Enzyme Action Lab Report Results
 - User-Friendly Interface
4. Exploring eBook Recommendations from Enzyme Action Lab Report Results
 - Personalized Recommendations
 - Enzyme Action Lab Report Results User Reviews and Ratings
 - Enzyme Action Lab Report Results and Bestseller Lists

5. Accessing Enzyme Action Lab Report Results Free and Paid eBooks
 - Enzyme Action Lab Report Results Public Domain eBooks
 - Enzyme Action Lab Report Results eBook Subscription Services
 - Enzyme Action Lab Report Results Budget-Friendly Options
6. Navigating Enzyme Action Lab Report Results eBook Formats
 - ePub, PDF, MOBI, and More
 - Enzyme Action Lab Report Results Compatibility with Devices
 - Enzyme Action Lab Report Results Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Enzyme Action Lab Report Results
 - Highlighting and Note-Taking Enzyme Action Lab Report Results
 - Interactive Elements Enzyme Action Lab Report Results
8. Staying Engaged with Enzyme Action Lab Report Results
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Enzyme Action Lab Report Results
9. Balancing eBooks and Physical Books Enzyme Action Lab Report Results
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Enzyme Action Lab Report Results
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Enzyme Action Lab Report Results
 - Setting Reading Goals Enzyme Action Lab Report Results
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Enzyme Action Lab Report Results
 - Fact-Checking eBook Content of Enzyme Action Lab Report Results
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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