

Enzymology III – Practice Questions

The following enzyme kinetics assay details are given.

Non-enzymatic reaction rate (AU/sec) = 1.4565×10^{-2}

Rates of enzyme catalysed reactions in AU/sec:

1) 3.3262×10^{-2}

2) 3.3343×10^{-2}

3) 3.358×10^{-2}

4) 3.3094×10^{-2}

E (product) = $1880 \text{ M}^{-1} \text{ cm}^{-1}$

Volume of enzyme used = 8 μL

Total reaction volume (buffer, enzyme and substrate) = 2.5 mL

Concentration of stock enzyme = 10 μM

Enzyme molecular weight = 22 kDa (note: 1 Da = 1 g/mol)

1. Calculate the velocity of the enzyme in $\mu\text{M}/\text{min}$
2. Calculate the velocity of the enzyme in $\mu\text{mol}/\text{min}$
3. Calculate the specific activity of the enzyme in $\mu\text{mol}/\text{min}/\text{mg}$

Answers:

1. 1014.7 $\mu\text{M}/\text{min}$ (i.e. $1.10 \times 10^3 \mu\text{M}/\text{min}$)

2. 2.54 $\mu\text{mol}/\text{min}$

3. $1.44 \times 10^2 \mu\text{mol}/\text{min}/\text{mg}$

Objective Questions In Enzymology

Rachel Sandford



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Table of Contents Objective Questions In Enzymology

1. Understanding the eBook Objective Questions In Enzymology
 - The Rise of Digital Reading Objective Questions In Enzymology
 - Advantages of eBooks Over Traditional Books
2. Identifying Objective Questions In Enzymology
 - 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 Objective Questions In Enzymology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Objective Questions In Enzymology
 - Personalized Recommendations
 - Objective Questions In Enzymology User Reviews and Ratings
 - Objective Questions In Enzymology and Bestseller Lists
5. Accessing Objective Questions In Enzymology Free and Paid eBooks

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 - Interactive Elements Objective Questions In Enzymology
- 8. Staying Engaged with Objective Questions In Enzymology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Objective Questions In Enzymology
- 9. Balancing eBooks and Physical Books Objective Questions In Enzymology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Objective Questions In Enzymology
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Objective Questions In Enzymology
 - Setting Reading Goals Objective Questions In Enzymology
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Objective Questions In Enzymology
 - Fact-Checking eBook Content of Objective Questions In Enzymology
 - 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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