

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

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Objective Questions In Enzymology:

Reviewing **Objective Questions In Enzymology**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Objective Questions In Enzymology**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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