

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

Robert R. Redfield



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