

PHYSICAL CHEMISTRY – CHEM330

Practice Exercises on Enzyme Kinetics

Please attempt the following problems to ensure you have understood the material covered:

Problems:

1. The enzyme-catalysed conversion of a substrate at 25 °C has a Michaelis constant of $0.035 \text{ mol dm}^{-3}$. The rate of the reaction is $1.15 \times 10^{-3} \text{ mol dm}^{-3} \text{ s}^{-1}$ when the substrate concentration is $0.110 \text{ mol dm}^{-3}$. What is the maximum velocity of this enzymolysis?
2. The initial rate of O_2 production by the action of an enzyme on a substrate was measured for a range of substrate concentrations, the data are given below. Evaluate the Michaelis constant for the reaction.

$[\text{S}]/\text{mol dm}^{-3}$	0.050	0.017	0.010	0.0050	0.0020
$v/\text{mm}^3 \text{ min}^{-1}$	16.6	12.4	10.1	6.6	3.3

Numerical Answers:

1. $1.52 \times 10^{-3} \text{ mol dm}^{-3} \text{ s}^{-1}$
2. $0.010 \text{ mol dm}^{-3}$

Enzyme Kinetics Problems And Answers Hyperxore

Kenneth B. Taylor



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