

1. Derive the Michaelis-Menten Equation for Competitive Inhibition.

Derive equation 3.23 of the text using the Rapid Equilibrium Assumption approach. Show all steps in the derivation.

2. Michaelis-Menten Enzyme Kinetics.

Problem 3.6 of the text. Note: Employ a double reciprocal plot for your solutions, except for part a) only, where you should use both the double reciprocal plot and the Hanes-Woolf plot to obtain the Michaelis-Menten constant and compare answers. Look to Example Problem 3.2 for guidance in answering this problem.

3. Uric Acid Degradation by Uricase Enzyme Immobilized in Ca-alginate Beads.

Problem 3.14 of the text.

Due Fri. 28 Sept., '07