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so many fake sites. this is the first one which worked! Many thanks

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3:15 We can test the fit of the Michaelis-Menten type equation in many ways, integral or differential. We will sketch these different solutions in turn. But first let us transform the M-M equation into the following useful form

$$-r_A = \frac{k_1 C_A C_A}{C_A + M} = \frac{k_1 C_A}{1 + k_2 C_A} \quad \text{where } \begin{cases} k_1 = \frac{k_1 C_{ES}}{M} \\ k_2 = \frac{1}{M} \end{cases} \quad (1)$$

Use this form

Integral method Integrating (1) gives

$$\frac{\ln C_A / C_{A0}}{C_{A0} - C_A} = -k_2 + \frac{k_1 t}{C_{A0} - C_A} \quad \left\{ \begin{array}{l} \text{slope: } k_1 = \frac{k_1 C_{ES}}{M} \\ \text{intercept: } -k_2 = -\frac{1}{M} \end{array} \right. \quad (2)$$

From this figure the constants in Eq. (1) are

$$\left. \begin{array}{l} k_1 = 1.97 \text{ hr}^{-1} \\ M = 0.197 \text{ mol/lit} \end{array} \right\} \text{ thus } r_A = \frac{1.97 C_A C_{ES}}{0.197 + C_A}$$

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