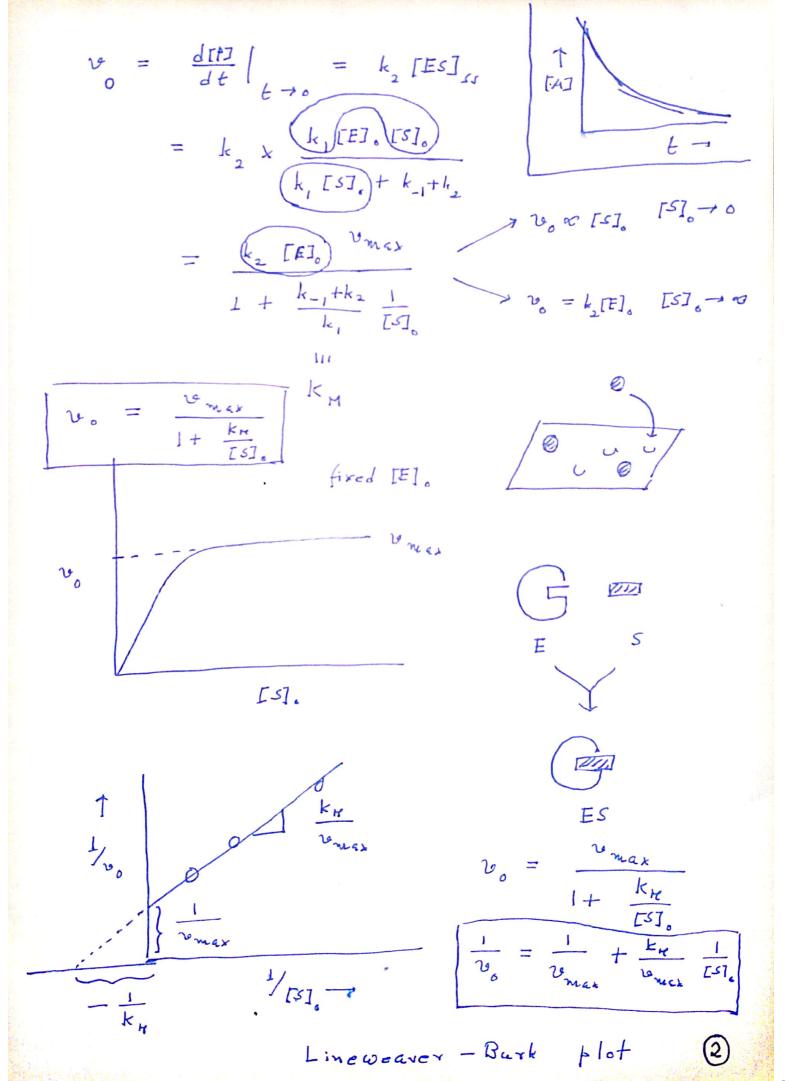
19205 Gile + Free Sucrose M [m] Investase (i)  $E + S \xrightarrow{k_1} ES$   $ES \xrightarrow{k_2} P + E$  [E] + (ES] + (ES)  $[S]_{s} = [E] + (ES) + [P]$   $ES \xrightarrow{k_2} P + E$   $[S]_{s} > [E]_{s} > [ES]$ Kichaelis - Henter  $\frac{d[ES]}{dt} = k_1 [E][S] - (k_1 + k_2)[ES] \approx 0 |a+SS|$  $v = \frac{d [P]}{dt} = k_2 [ES]$  $6 = k, \left( \text{rel}_{\circ} - \text{[Es]} \right) \left( \text{rsl}_{\circ} - \text{[Es]} - \text{[P]} \right)$  $- \left( k_{-1} + k_{2} \right) \text{[Es]}$ = k, ([E] - [ES]) [S] - (k-1+k, ) [ES] = k, [E] [S] - (k, [S] + k, + k) [ES] [ES] SS = k, [E], [S], k, [S], + k, +k



ocarinea with odl

8) Non-competitive 
$$k_1$$
 $E + S \rightleftharpoons ES$ 
 $k_{-1}$ 

$$ES \xrightarrow{k_2} P + E$$

$$[F]_{6} = [F] + [ES] + [EGI] + [ESI]$$

$$= [F] + [ES] + [EIII] + [ESI][I]$$

$$= [F] \left(1 + [II] + [ES] \left(1 + [II] + [III] + [III]$$

$$[E] = \frac{.[E]_6}{1 + \frac{[E]}{K_I}} - [ES]$$

$$\frac{d [ES]}{d t} \approx 0 = k_1 [E][S] - (k_1 + k_2)[ES]$$

$$= k_1 \left\{ \frac{[E]}{1 + \frac{[I]}{k_1}} \right\} - [ES] \left\{ \frac{[E]}{k_2} (k_1 + k_2)[ES] \right\}$$

$$v_0 = k_2 [ES]_{IS} = k_2 \frac{k_1 [E]_0 [S]_1 / (1 + [IT]/k_1)}{k_1 [S]_0 + (k_1 + k_2)}$$

$$v_o = \frac{v_{\text{mex}}}{\left(1 + \frac{k_H}{L SI_o}\right) \left(1 + \frac{\Gamma \Gamma I}{k_{\Gamma}}\right)}$$

 $1 + \frac{k_H}{[S]_0} \left(1 + \frac{[I]}{k_J}\right)$ in libition  $= \frac{1 + \frac{K_{+}}{[S]_a} \left(1 + \frac{[1]}{K_J}\right)}{\left(1 + \frac{[1]}{K_J}\right)}$ Linewegver - Burk plots  $\frac{1}{2max} + \frac{k_{H}}{2max} \left(1 + \frac{[I]}{k_{I}}\right) \frac{1}{[IS]_{6}}$ Competitie B)  $\frac{1}{v_0} = \frac{1}{v_{max}} \left(1 + \frac{[1]}{k_I}\right) + \frac{k_H}{v_{max}} \left(1 + \frac{[1]}{k_I}\right) \frac{1}{[5]_6} \frac{k_{ou} - k_{ou}}{[1]_{2N}}$ UII, 1+ [] (1+ [])  $\frac{k_{H}}{u_{m}}\left(1+\frac{[I]}{k_{I}}\right)$ 16 (1+ [I])  $\frac{1}{I}$ 1/15]  $\frac{1}{k_{m}\left(1+\frac{\Gamma T}{k_{T}}\right)}$ Non-competitive Competitive

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