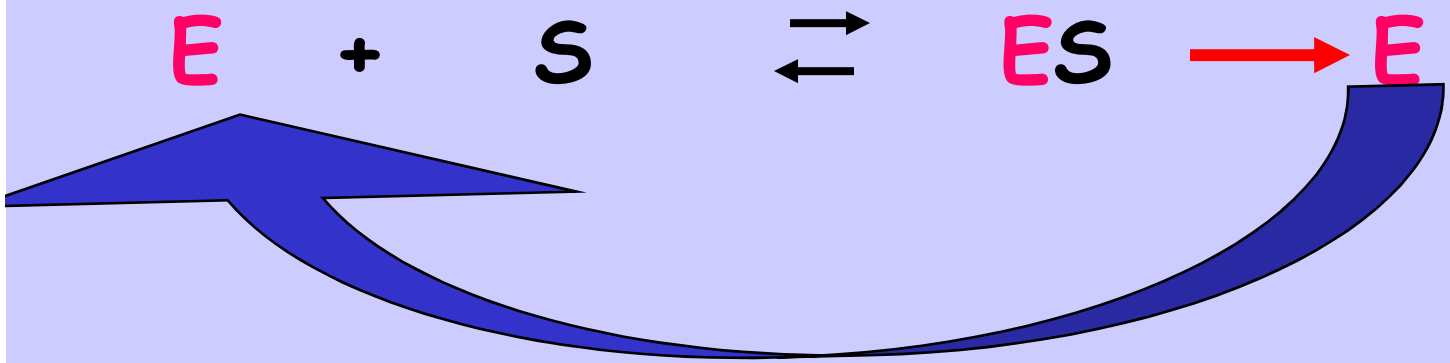
F. Q. UNAM

Métodos Espectrofotométricos enzimáticos

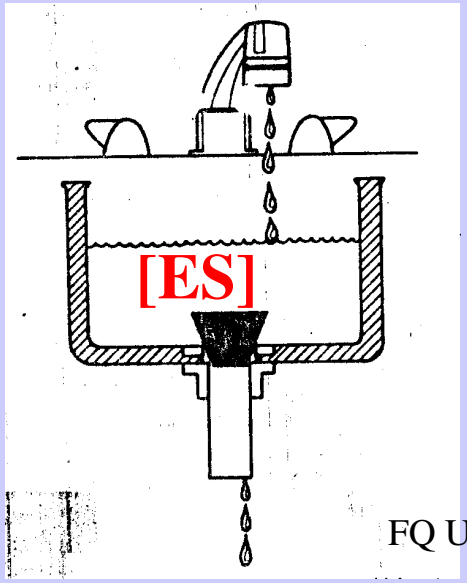
Alejandro Baeza

2005

Esquema general



Modelo Briggs y Haldane: estado estacionario "steady state"



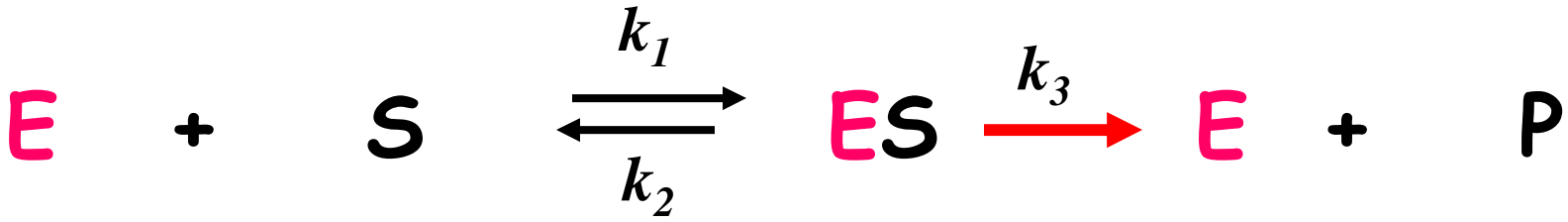
V_{in}

[ES]

V_{out}

$$d[ES]/dt = 0$$

Demostración:



$V_f = k_1[E][S]$

$V_d = k_2[ES]+k_3[ES]=(k_2+k_3)[ES]$

$V_f = V_d$

$k_1[E][S] =(k_2+k_3)[ES]$

$(k_2+k_3) / k_1 = [E][S]/[ES]=K_m$

Jeffrey A. Cohlberg
"K_M as an Apparent Dissociation Constant"
Journal of Chemical Education 56[8](1979)512-517

M.K. Ciolskz and J. Jordan
"Electrochemical and Spectrophotometrical Enzymatic Determinations"
Analytical Chemistry **65**(1993)164-168

H.Prado, P. Diaz, J.L: Ortiz and A. Baeza
"Polarographic Determination of Km´and V_{max} of Gluthathione Reductase"
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