

pirt:

$$q_S = \frac{\mu}{Y_{X/S}} + m$$

monod:

$$\mu(S) = \frac{\mu_{\max} S}{K_S + S}$$

moser:

$$\mu(S) = \frac{\mu_{\max} S^n}{K_S^n + S^n}$$

contois:

$$\mu(S, X) = \frac{\mu_{\max} S}{K_S X + S}$$

bergter:

$$\mu(S, t) = \frac{\mu_{\max} S}{K_S + S} \left(1 - e^{-t/T}\right)$$

Aiba:

$$\mu(S) = \mu_{\max} \frac{S}{K_S + S} e^{-K_I S}$$

Andrews:

$$\mu(S) = \mu_{\max} \frac{S}{K_S + S + \frac{S^2}{K_I}}$$

Tessier:

$$\mu(S) = \mu_{\max} \left(1 - e^{-S/K_S}\right)$$