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2. Growth Rate Is Independent Of Nutrient And Substrate Conc. 3. Cell Number And Mass Concentrations Increase Exponentially 4. Balanced Growth Occurs  $\Rightarrow$  Cell

Composition Constant  $\frac{DX}{Dt} = \mu_{\max} X$ ,  $X = X_0 \text{ At } T = 0$   $X = X_0 e^{\mu_{\max} T}$  Or  $\ln \frac{X}{X_0} = \mu_{\max} T$  Doubling Time Of Cells ( $t_D$ ),  $X \times 2 = X_0 \Rightarrow \ln(2) = \mu_{\max} T_D$   $T_D = \frac{\ln 2}{\mu_{\max}}$  Or  $\mu_{\max} = \frac{\ln 2}{T_D}$  ... 4th, 2024

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