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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 $\frac{dX}{dt} = \mu$
 $\mu_{max} X$, $X = X_0$ At $T = 0$ $X = X_0 e^{\mu_{max} T}$ Or $\ln \frac{X}{X_0} = \mu_{max} T$
 $= \mu_{max} T$ Doubling Time Of Cells (t_D), $X/X_0 = 2 \Rightarrow$
 $\ln(2) = \mu_{max} T_D$ $T_D = \frac{\ln 2}{\mu_{max}}$ Or $\mu_{max} \dots$ Feb
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