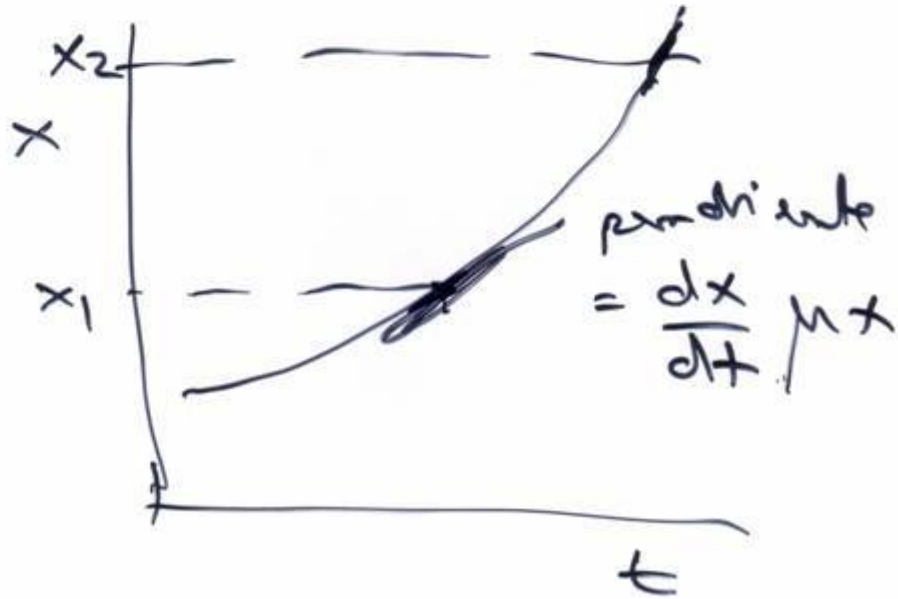
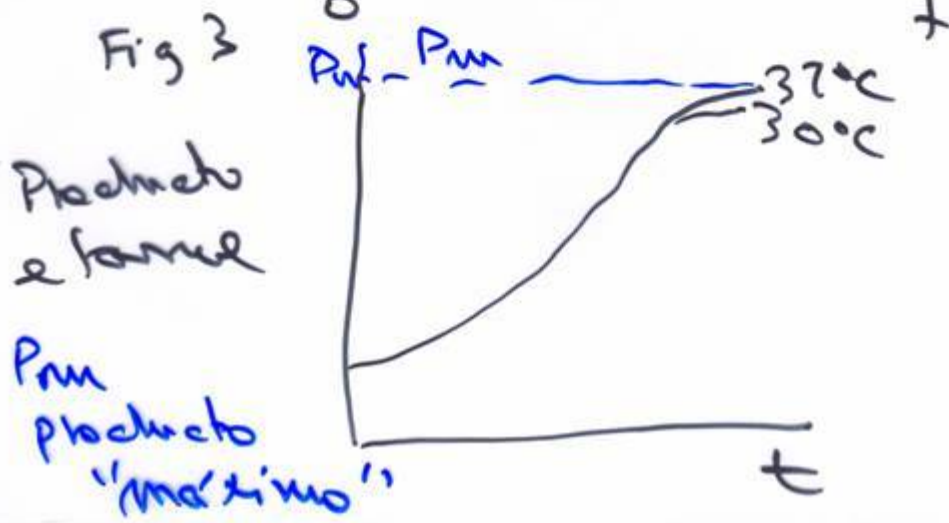
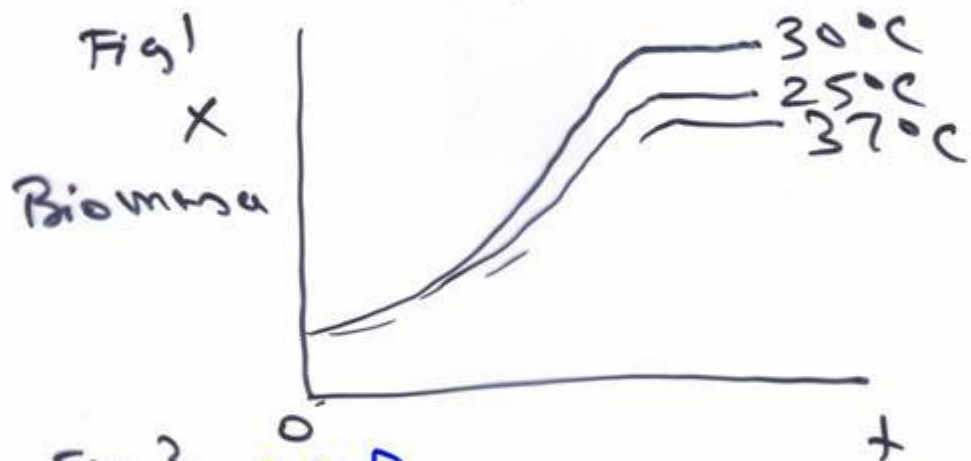
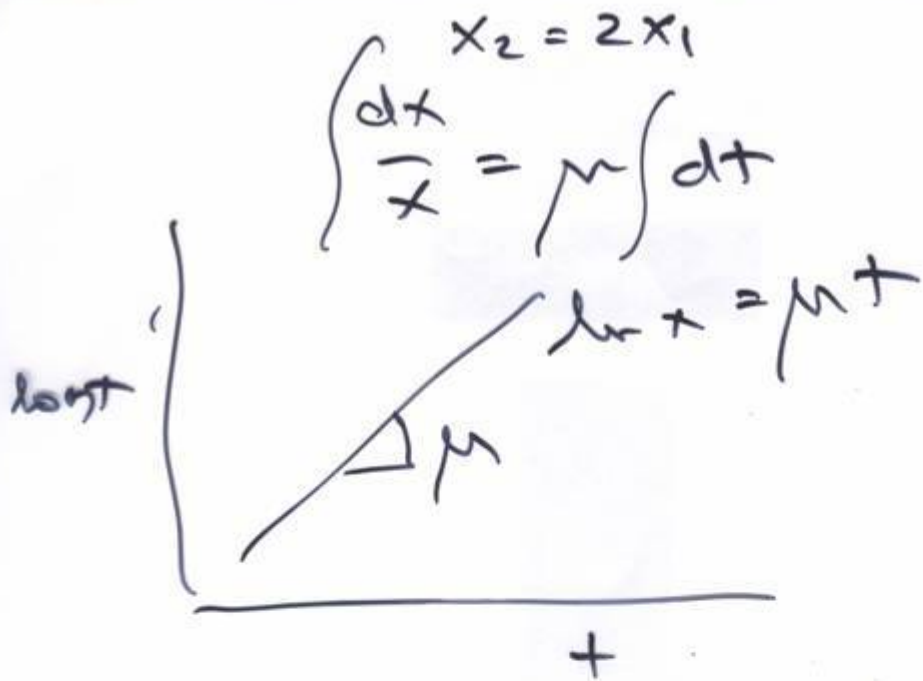


5 ml medio de cultivo





$$E_c (a) \frac{dx}{dt} = \frac{\mu_{max} \cdot S}{K_s + S} \cdot \left(1 - \frac{P}{P_{lim}}\right) \cdot X$$

inhibición por alcohol

E_c (b)

$$\frac{dP}{dt} = \mu_m (\text{max})$$

$$P = P_{lim} \\ \frac{dP}{dt} = 0$$

(inhibición) X

$$Y_{P/S} = \frac{\Delta P}{\Delta S}$$

$$\boxed{-Y_{P/S} = \frac{dP}{dt} \cdot \frac{dt}{dS}} = \frac{dP}{dS}$$

$$\frac{dS}{dt} = -\frac{1}{Y_{P/S}} \cdot \frac{dP}{dt}$$

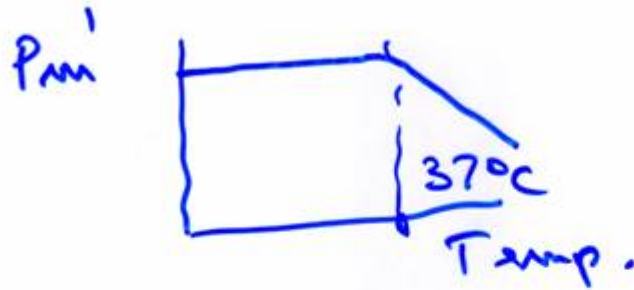
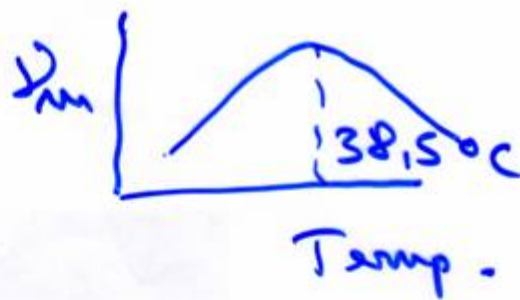
P 143.

$\mu_{max} \rightarrow 33^\circ C$ crecimiento

$\beta (\mu_{max}) \rightarrow 38.5^\circ C \leftarrow$ velo c. form producto

$P_{m'} \text{ de hasta } 37^\circ C$

↓
conc. max. e tanol



Optimización



$$K_s = \text{Monod}$$

$$Y_{p/s} = 0,377$$

Ítems adicionales

- Modelo Matemático
- Nomenclatura
- Conclusiones aparecen en el

Material y Métodos Resumen.

S.O. ATCC 26602
American Type Culture Collection

NRRL - Northern Regional
Research Laboratories
Peoria, Illinois

Inglaterra - NCIB

Alemania - DSM

yeast - levadura

dry weight - peso seco

