

SYMBOLS AND NOTATIONS

μ	: Specific growth rate
$\mu_{\max}$	: Maximum specific growth rate
K_s	: Saturation constant
S	: Limiting substrate concentration
S_0	: Initial substrate concentration
X	: Biomass concentration in the fermentor
D	: Dilution rate
D_m	: dilution rate corresponding to maximum productivity
D_c	: Critical dilution rate
DX	: Biomass productivity
F	: Flow rate
Y	: Yield coefficient
∞	: Specific death rate
T	: Temperature
t	: Time
t_d	: Doubling time
V	: Volume culture
W/V	: Weight per volume
mm	: Milli meter
μm	: Microns
nm	: Nanometer
ΣV	: Cumulative volume