

LIST OF SYMBOLS

%	Percentage
°C	Degree Celsius
μL	Micro liter
μ	Specific growth rate
μ _{max}	Maximum specific growth rate
ε	Gas holdup
τ	shear stress
γ	shear rate
τ _{y, B}	Bingham yield stress
μ _P	plastic viscosity
τ _{y, C}	Casson yield stress
μ _{P, C}	Casson viscosity
K	consistency index
<i>n</i>	flow behavior (power-law) index
<i>ALR</i>	Airlift Bioreactor
ATP	Adenosine triphosphate
cm	Centimeter
D	Dilution rate
g	grams
h	hours
K _L a	Volumetric oxygen mass transfer coefficient
L	Litres
M	Molar

mg	milligram
min	Minutes
mL	Milliliter
mm	Millimeter
m	meter
MTCC Bank	Microbial Type Culture Collection and Gene
nm	nanometer
NCIM	National Collection of Industrial Microorganisms
NBRC	National Biological resource Centre
Pa	Pascal
R	Correlation Coefficient
rpm	Revolutions per minute
S/N	Signal to noise ratio
sp.	Species
UV	Ultra-Violet
U _{sg}	Superficial gas velocity
v/v	volume/volume
vvm	Volume of air flow per unit volume of media per minute
w/v	Weight/volume