

LIST OF SYMBOLS

%	Percentage
°C	degree Celsius
A ₂₉₃	Absorbance at 293 nm
ANOVA	Analysis of Variance
APS	Ammonium per sulphate
BLAST	Basic Local Alignment Search Tool
bp	Base pairs
BSA	Bovine serum albumin
Conc.	Concentration
DEAE sepharose	Diethyl amino ethyl sepharose
<i>B. cereus</i>	<i>Bacillus cereus</i>
<i>P. aeruginosa</i>	<i>Pseudomonas aeruginosa</i>
<i>S. cerevisiae</i>	<i>Saccharomycae cerevisiae</i>
EC	Enzyme classification
g	grams
h	Hours
FPLC	Fast performance liquid chromatography
kDa	Kilo Dalton
K _m	Substrate concentration at which the reaction velocity is half maximum
kV	Kilo Volt
NA	Nutrient Agar
M	Molar
mg	Milligram
mL	Milliliter
NJ	Neighbour Joining
Nm	Nanometer
OD	Optical density

UA	Uric Acid
PAGE	Polyacrylamide gel electrophoresis
DOE	Design of Experiments
OA	Orthogonal array
rpm	revolutions per minute
CSL	Corn steep liquor
RT	Room temperature
SDS	Sodium dodecyl sulphate
SmF	Submerged fermentation
sp.	Species
SSF	Solid state fermentation
TEMED	N-N-N' -N' -tetramethyl ethylene diamine
U/mg	Units/milligram
U/mL	Units/milliliter
UV	Ultra violet
v/v	volume/volume
w/v	weight/volume
V_{\max}	maximal velocity
μg	Microgram
μL	micro litre
μM	micromole
<i>Bc</i> -uricase	<i>Bacillus cereus</i> uricase
ABC	Ammonium bicarbonate
CAN	Acetonitrile
MALDI-TOF	Matrix Assisted Laser Desorption Ionization- Time of Flight
MS	Mass spectra
CD	Circular Dichroism
SEC	Size Exclusion Chromatography
AEC	Anion-Exchange Chromatography

V_t	Total volume
df	Dilution factor
t	Time
V_s	Enzyme volume