

List of Abbreviations:

ATCC	American type culture collection
PCC	Pasteur culture collection
IPTG	Isopropyl β - D-thio galactopyranoside
X- Gal	5-Bromo-4-chloro-3-indolyl- β -D- galactopyranoside
Aa	Amino acid
Kb	Kilobase (s)
Bp	Base pair (s)
KDa	Kilodalton
ORF	Open reading frame
FeMoco	Iron molybdenum cofactor
GS	Glutamine synthetase
GOGAT	glutamine oxoglutarate amino transferase
PS I/II	Photosystem I/II
N ₂	Dinitrogen
NR	Nitrate reductase
NiR	Nitrite reductase
NO ₃	Nitrate
NO ₂	Nitrite
AMP	adenosine monophosphate
ATP	Adenosine triphosphate
α -KG	α -ketoglutarate
CRP	cyclic AMP receptor protein
GFP	Green fluorescent protein
σ^{70}/σ^{54}	sigma subunit of RNA polymerase
CFU	colony forming units
ONPG	Ortho nitro phenyl pyrogalactoside
HU	Histone like proteins
Arg	Arginine
Leu	Leucine
Amp	Ampicillin
