

List of Abbreviations:

ATCC	American type culture collection
PCC	Pasteur culture collection
X-Gal	5-Bromo-4-chloro-3-indolyl- β -D galactopyranoside
IPTG	Isopropyl β -D thio galactopyranoside
kb	kilobase (s)
bp	base pair (s)
kDa	kilodalton
ORF	Open reading frame
GS	Glutamine synthetase
GOGAT	Glutamine oxoglutarate amino transferase
PS I/II	Photosystem I/II
N ₂	Dinitrogen
NR	nitrate reductase
NiR	nitrite reductase
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
SSR	Site-specific recombination
OD	Optical Density