

ABBREVIATIONS

ATCC American type culture collection

X-Gal 5-Bromo-4-chloro-3-indolyl-β-D galactopyranoside

IPTG Isopropyl β-D thio galactopyranoside

LB Luria broth

SDS Sodium Dodecyl Sulphate

APS Ammonium persulfate

Ori Origin of replication

WT Wild type

PPC Phosphoenolpyruvate carboxylase

CS Citrate synthase

PYC Pyruvate carboxylase

ICL Isocitrate lyase

ICDH Isocitrate dehydrogenase

GDH Glucose dehydrogenase

G-6-PDH Glucose-6-phosphate dehydrogenase

GADH Gluconate dehydrogenase

PPC Phosphoenolpyruvate carboxykinase

PYC Pyruvate carboxylase

PYK Pyruvate kinase

ME Malic enzyme

MDH Malate dehydrogenase

LDH Lactate dehydrogenase

POX Gluaicol peroxidase

APX Ascorbate peroxidase

SOD Superoxide dismutase

NR Nitrate reductase

PDH	Pyruvate dehydrogenase
PFK	Phosphofructokinase
PTS	Phosphotransferase system
GFP	Green fluorescent protein
PQQ	Pyrolloquinoline quinone
G-6-P	Glucose-6-phosphate
6-PG	6-phosphogluconate
PEP	Phosphoenolpyruvate
OAA	Oxaloacetate
ATP	Adenosine triphosphate
DNA	Deoxyribonucleic acid
cAMP	Cyclic adenosine monophosphate
NADH	Nicotinamide adenine dinucleotide (reduced)
NADP(H)	Nicotinamide adenine dinucleotide phosphate (reduced)
DTT	1, 4-Dithiothreitol
EMP	Embden-Meyerhof-Parnas pathway
TCA	Tricarboxylic acid
PPP	Pentose phosphate pathway
ETC	Electron transport chain
ED	Entner-Doudoroff
PSM	Phosphate solubilizing microorganisms
P/Pi	Phosphate / inorganic phosphate
HPLC	High performance liquid chromatography
BLAST	Basic local alignment search tool
PCR	Polymerase Chain Reaction
PAGE	Polyacrylamide Gel Electrophoresis
EDTA	Ethylene diamine tetra acetic acid
Tris	Tris (hydroxymethyl) aminomethane buffer
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CTAB	Cetyl trimethylammonium bromide
PGPR	Plant Growth Promoting Rhizobacteria
RE	Restriction Endonuclease
nm	Nanometer
ng	Nanogram
kb	kilobase (s)
bp	base pair (s)
kDa	Kilodalton
rpm	Revolutions per minute
OD	Optical Density
DCW	Dry cell weight
mM/M	Millimolar/Molar
μl/ml	Microlitres/millilitres
Amp	Ampicillin
Km	Kanamycin
Str	Streptomycin
Tmp	Trimethoprim
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Note: The full forms of several rarely used abbreviations have been described within the text.