



LIST OF ABBREVIATIONS USED:

X-Gal	5-Bromo-4-chloro-3-indolyl- β -D galactopyranoside
IPTG	Isopropyl β -D thio galactopyranoside
LB	Luria broth
Ori	Origin of replication
WT	Wild type
PPC	Phosphoenolpyruvate carboxylase
CS	Citrate synthase
ICL	Isocitrate lyase
ICDH	Isocitrate dehydrogenase
G-6-PDH	Glucose-6-phosphate dehydrogenase
PYK	Pyruvate kinase
ME	Malic enzyme
MDH	Malate dehydrogenase
LDH	Lactate dehydrogenase
POXB	Pyruvate oxidase
PDHC	Pyruvate dehydrogenase
PFK	Phosphofructokinase
PTS	Phosphotransferase system
PQQ	Pyrolloquinoline quinone
G-6-P	Glucose-6-phosphate
PEP	Phosphoenolpyruvate
F-1-P	Fructose -1- Phosphate
F-1,6-P	Fructose-1,6- biphosphate
OAA	Oxaloacetate
ATP	Adenosine triphosphate
DNA	Deoxyribonucleic acid
cAMP	Cyclic adenosine monophosphate
NAD(H)	Nicotinamide adenine dinucleotide (reduced)
NADP(H)	Nicotinamide adenine dinucleotide phosphate (reduced)

DTT	-1, 4Dithiothreitol
EMP	Embden–Meyerhof–Parnas pathway
TCA	Tricarboxylic acid
PPP	Pentose phosphate pathway
ETC	Electron transport chain
ED	Entner-Doudoroff
P/Pi	Phosphate / inorganic phosphate
HPLC	High performance liquid chromatography
PCR	Polymerase Chain Reaction
EDTA	Ethylene diamine tetra acetic acid
Tris	Tris (hydroxymethyl) aminomethane buffer
CTAB	Cetyl trimethylammonium bromide
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
Tc	Tetracycline
Ap	Ampicillin
Km	Kanamycin
Str	Streptomycin
Chl	Chloramphenicol
Gm	Gentamycin

Note: The full forms of several rarely used abbreviations have been described within the text