

°C	Degree Celsius
%	Percent
β -ME	β -Mercaptoethanol
μ l	microliter
μ g	Micro gram
μ M	Micro Molar
bp	Base pair
cv.	Cultivar
cDNA	Complementary DNA
dwb	Dry weight basis
fwb	Fresh weight basis
gm	Gram
kb	Kilobases
kDa	Kilodalton
ml	milliliter
mA	Milli ampere
mg	Milligram
mM	Milli Molar
min	Minutes
nm	Nanometer
rpm	Rotation per minute
1D	One Dimensional
1-DE	1-Dimensional gel electrophoresis
2D	Two Dimensional
2-DE	2-Dimensional gel electrophoresis
h	Hour

ABA	Abscisic Acid
APS	Ammonium Per Sulphate
APX	Ascorbate Peroxidase
AmA1	Amaranth Seed Albumin 1
BCE	β -carotene equivalents
BSA	Bovine serum albumin
CHAPS	Cholamidopropyltrimethylammonio propanesulfonate hydrate
COE	Constitutive overexpression
CP	Coat protein
dNTPs	Deoxy nucleotide triphosphates
DEPC	Diethyl pyrocarbonate
DNA	Deoxyribonucleic acid
DTT	Dithiothreitol
EDX	Energy-dispersive X-ray spectroscopy
EDTA	Ethylene Diamine Tetra Acetic Acid
EGTA	Ethylene-bis (oxyethylenitrilo) tetraacetic acid
FAO	Food and Agriculture Organization
FTIR	Fourier transform infrared spectroscopy
GAE	Gallic acid equivalent
GAPDH	Glyceraldehyde 3-phosphate dehydrogenase
GBSS	Granule-Bound Starch Synthase
GC-MS	Gas chromatography-mass spectrometry
GFP	Green-fluorescent protein
GM	Genetically Modified
GUS	β -glucuronidase
<i>hpt II</i>	Hygromycin phosphotransferase II gene
HCl	Hydrochloric Acid

HIV	Human immunodeficiency virus
HPLC	High Pressure Liquid Chromatography
IAA	Indole-3-acetic acid
IU	International unit
KBr	Potassium bromide
KCl	Potassium Chloride
KH ₂ PO ₄	Potassium Dihydrogen Phosphate
LC-MS	Liquid Chromatography–Mass Spectrometry
LB	Luria-Bertani
LD	Lethal Dose
<i>LEA</i>	Late embryogenesis abundant
Lys	Lysine
M	Molar
Met	Methionine
MS	Mass Spectroscopy
NaOH	Sodium Hydroxide
Nt	Nucleotide
NMR	Nuclear Magnetic Resonance
OD	Optical Density
OFSP	Orange fleshed sweet potato
ORF	Open Reading Frame
PAGE	Poly Acrylamide Gel Electrophoresis
PCR	Polymerase Chain Reaction
PMSF	Phenyl Methyl Sulfonyl Fluoride
qRT-PCR	Quantitative Real Time PCR
QE	Quercetin equivalent
rDNA	Recombinant DNA

rRNA	Ribosomal Ribonucleic Acid
RT	Retention time
RT-PCR	Reverse Transcription PCR
RNAi	RNA interference
ROS	Reactive oxygen species
S	Svedberg Unit
SD	Standard deviation
SDS	Sodium Dodecyl Sulphate
SE	Standard Error
SEM	Scanning electron microscopy
SPCSV	Sweet Potato Chlorotic Stunt Virus
SPFMV	Sweet Potato Feathery Mosaic Virus
SPMMV	Sweet potato mild mottle virus
SPVG	Sweet potato virus G
T-DNA	Transfer DNA
TAC	The total anthocyanin content
TAE	Tris Acetate EDTA buffer
TCC	Total carotenoid contents
TE	Tris EDTA
TEMED	N,N,N',N'-Tetramethylethylenediamine
TFA	Tri-Fluoro Acetic acid
TFC	Total flavonoids content
TOE	Tuber specific overexpression
TPC	Total phenolic content
Trp	Tryptophan
TOE	Tuber specific overexpression
USDA	United States Department of Agriculture

UV	Ultraviolet
UV-VIS	Ultraviolet-Visible Spectrophotometry
V	Volts
WFSP	White fleshed sweet potato
WHO	World Health Organization
WHC	Water holding capacity
WT	Wild type