List of Abbreviations

α	alpha
º	degree
°C	degree Celsius
°F	degree Fahrenheit
ψ	pseudo
%	percentage
<	less than
>	more than
±	more less
+	plus/add
:	is to
-20°C	minus twenty degree Celsius
----------	over
-	not applicable
I	one
II	two
X 100	times hundred
^{1}H NMR	proton nuclear magnetic resonance
2,4-D	2,4-dichlorophenoxyacetic acid
60 F_{254}	Merck precoated aluminum back thin layer chromatography sheets, aluminum oxide 60 Å (ångström) pore size with a F (fluorescent indicator) at 254 nm (nanometer) excitation wavelength
100x g	hundred times gravity force
400x	four hundred times magnification
µm	micrometer
ABA	abscisic acid
Ave	average
B_5	pantothenic acid
BA	N-6-benzyladenine
BAP	N-6-benzylaminopurine
BSTFA	N,O-bis (trimethylsilyl) trifluoroacetamide
BuOH	butanol
cm	centimeter
cps	count per second
C	carbon
C	cotyledon
C^{+}	with 250 mg/L carbenicilin
C^{-}	without 250 mg/L carbenicilin
C_2H_5OH	absolute ethanol
$C_2H_6^{+}$	ethane
C_2H_{12}	ethylene
C_6H_6	benzene
$C_7H_7^{+}$	tropylium ion
$C_{28}H_{50}N_2O_4$ and $C_{28}H_{52}N_2O_4$+2Br-H_2O	carpaine and piperidine+hydrobromide

CAS	chemical abstracts service
$CDCl_3$	deuterium chloroform
$CHCH_3$	alkene
$CHCl_3$	chloroform
CH_2	methylene
CH_3COOH	glacial acetic acid
CI	callus induction medium
CO_2	carbon dioxide
COO^{-Na+}	cobalt oxide reducing the electropositive sodium
COOH	carboxyl group
CVS	cell volume after sedimentation
d	duplet
DNA	deoxyribonucleic acid
e.g.	*exempli gratia* (for example)
et al.	*et alia* (and others)
EC	embryogenic callus
ESC	embryogenic cell suspension
Et_2O	diethyl ether
FAOSTAT	Food and Agricultural Organization Statistic
FDA	fluorescence diacetate
FGP	Field grown plant
FT-NMR	Fourier transform - nuclear magnetic resonance
FTICR	Fourier transform ion cyclotron resonance
FW	fresh weight of cells
g	gramme
g/L	gramme per litre
g/mol	gramme per mol
G	germination medium
GA_3	gibberellic acid
GC	gas chromatography
GC-MS	gas chromatography-mass spectrometry
GE	globular embryo
GLC	gas-liquid chromatography
hrs	hours
H	hidrogen
H_2O	water
HCl	hydrochloride
HOAc	acetic acid
Hz	hertz
i/i/i	isipadu/isipadu/isipadu
i.e	*id est* (that is)
IAA	indole-3-acetic acid
IBA	indole-3-butyric acid
***Iv*P**	*In vitro* Plantlets
IZE	immature zygotic embryos
J	coupling constant
kg	kilogramme
kPa	kilopascal
K_2CO_3	potassium carbonate
lux	illuminance and luminous emittance

LM	liquid multiplication medium
m	multiplet
m	metres
mg	milligramme
m/z	mass-to-charge ratio
mg/kg	milligramme per kilogramme
mg/L	milligramme per litre
mL	millilitre
mm	millimetre
m.p	melting point
M	molar
M^+	molecular ion
$[M^+]$	molecular ion peak
MARDI	Malaysian Agricultural Research and Development Institute
Me	methyl (CH_3)
MeOH	methanol
MHz	megahertz
MOX	Malaysian Oxygen
MS	Murashige and Skoog
MS	mass spectrometry
N	Nitsch and Nitsch
N	nitrogen
N_2	nitrogen gas
NAA	naphthaleneacetic acid
NaCl	sodium chloride
NaOH	sodium hydroxide
Na_2SO_4	sodium sulfate
NH	amino acids element
NH_2	amino group
NH_3Cl^-	ammonium chloride
NMR	nuclear magnetic resonance
No.	number
O	oxygen
O^{-Na+}	oxygen reducing the electropositive sodium
OE	oblong embryo
OH	hydroxide
pH	$-\log_{10}$ proton concentration (activity), in mol per litre
ppm	part per million
Pc	critical pressure
PCT	pro-cambial traces
PCV	packed cell volume
PE	pro-embryo
PEM	pro-embryo mass
PGR	plant growth regulators
PRSV	Papaya Ring Spot Virus
q	quintet
rpm	range per minute
R	regeneration media
R_f	retention factor
RAPD	random amplification polymorphism DNA

RM	ringgit Malaysia
RNA	ribonucleic acid
sec	second
SC CO_2	supercritical carbon dioxide
SCF	supercritical fluid
S.D	±standard deviation
SE	somatic embryos
SF	supercritical fluid
SFE	supercritical fluid extraction
SR	suspensor region
Tc	critical temperature
TFNet	International Tropical Fruits Network
TDZ	thidiazuron
TLC	thin layer chromatography
T magnet	tesla magnetic
TMCS	trimethylchlorosilane
TO	torpedo embryo
USD	dollar of United State of America
UV	ultraviolet light
v/v	volume per volume
v/v/v	volume per volume per volume
w/v	weight per volume