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## **LIST OF ABBREVIATIONS**

AIDS	-	Acquired Immune Deficiency Syndrome
AO/Et-Br	-	Acridine orange/Ethidium bromide
AOAC	-	Association of Official Analytical Chemists
BC	-	Before Christ
BSI	-	Botanical Society of India
BLAST	-	Basic Local Alignment Search Tool
CTAB	-	Cetyl Trimethyl Ammonium Bromide
CTM	-	Chinese Traditional Medicine
CuSO <sub>4</sub>	-	Copper Sulphate
dNTP	-	Deoxynucleoside triphosphates
DMSO	-	Dimethyl sulphoxide
DNA	-	Deoxyribonucleic acid
EAA	-	Essential Amino Acid
EDTA	-	Ethylenediamine tetra acetic acid
FACS	-	Flourescence activated cell sorting
FAO	-	Food and Agriculture Organization
FBS	-	Fetal Bovine Serum
V-FITC	-	Fluorescein Isothiocyanate
FRAP	-	Ferric Reducing Antioxidant Power Assay
FT-IR	-	Fourier Transformed Infrared Spectroscopy
GA	-	Gallic Acid
GCMS	-	Gas Chromatography Mass Spectrometry
HCl	-	Hydrochloric Acid
HIV	-	Human Immuno Deficiency Virus
H <sub>2</sub> SO <sub>4</sub>	-	Sulfuric Acid
H <sub>2</sub> O <sub>2</sub>	-	Hydrogen Peroxide
HNO <sub>3</sub>	-	Nitric Acid
IC <sub>50</sub>	-	Inhibitory Concentration

ICP-OES	-	Inductively Coupled Plasma-Optical Emission Spectrometry
ISSR	-	Inter-simple sequence repeats
ITS	-	Internal transcribed spacer
K <sub>2</sub> SO <sub>4</sub>	-	Potassium Sulphate
KMnO <sub>4</sub>	-	Potassium Permanganate
M	-	Molar
MEGA	-	Molecular Evolutionary Genetics
MTT	-	3-[4, 5-dimethylthiazol-2-yl]-2, 5 diphenyl tetrazolium bromide)
Ng	-	nanogram
NaCl	-	Sodium Chloride
NaOH	-	Sodium Hydroxide
NCBI	-	National Centre for Biotechnology Information
NEAA	-	Non-Essential Amino Acid
NER	-	Northeastern Region
N <sub>2</sub>	-	Nitrogen
NIST	-	National Institute of Standard and Technology
PCR	-	Polymerase Chain Reaction
PBS	-	Phosphate Buffered Saline
PI	-	Propidium Iodide
RAPD	-	Random Amplified Polymorphic DNA
rbcL	-	Ribulose-bisphosphate carboxylase
RBC	-	Red Blood Corpucles
RDA	-	Recommended dietary allowances
SD	-	Standard Deviation
TCM	-	Traditional Chinese Medicine
TFC	-	Total flavonoid content
UV-VIS	-	Ultra Violet Visible
WBC	-	White Blood Corpuscles
WHO	-	World Health Organisation