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List of Abbreviations

ABTS	- 2,2'-azino-bis-3-ethyl benzthiazoline-6-sulphonic acid
ANOVA	- Analysis of Variance
CAT	- Catalase
CCl₄	- Carbon tetrachloride
CDNB	- 1-chloro-2,4-dinitrobenzene
DMEM	- Dulbecco's Modified Eagle's Medium
DMSO	- Dimethyl sulphoxide
DNPH	- Dinitro phenyl hydrazine
DPPH	- 2,2-diphenyl-2-picryl hydrazyl hydrate
DTNB	- Dithio nitro benzene
EDTA	- Ethylene diamine tetraacetic acid
FBS	- Fetal Bovine Serum
FT- IR	- Fourier Transform Infra Red Spectroscopy
GC-MS	- Gas Chromatography - Mass Spectroscopy
GPx	- Glutathione peroxidase
GR	- Glutathione reductase
GSH	- Reduced glutathione
GST	- Glutathione S-transferase
H₂O₂	- Hydrogen peroxide
HPTLC	- High performance thin layer chromatography
MCF-7	- breast cancer cell line / breast adenocarcinoma cell line
EAC	- Ehrlich ascites carcinoma cell line
HCT116	- Colon cancer cell line
L929	- Normal mouse fibroblast cell line
mM	- Milli molar
MTT	- 3-(4,5-dimethyl-thiazol-2-yl)-2,5-diphenyl tetrazolium bromide
NADPH	- Nicotinamide Adenine Dinucleotide Phosphate reduced
NBT	- Nitroblue tetrazolium
PBS	- Phosphate buffered saline
POD	- Peroxidase
RNS	- Reactive nitrogen species
ROS	- Reactive oxygen species
SD	- Standard deviation
SOD	- Superoxide dismutase
SRB	- Sulphorhodamine B

TAE	- Tris-acetate-EDTA
TBA	- Thiobarbituric acid
TBARS	- Thiobarbituric acid reactive substances
TCA	- Trichloro acetic acid
TLC	- Thin layer chromatography
U	- Units of enzyme
UV	- Ultra violet
μM	- Micro molar
ALP	- Alkaline phosphatase
ALT	- Alanine transaminase
ANSA	- Amino naphthol sulfonic acid
AST	- Aspartate transaminase
GGT	- Gamma glutamyl transferase
HPLC	- High performance liquid chromatography
LPO	- Lipid peroxidation
MDA	- Malondialdehyde
NAD⁺/NADH	- Nicotinamide adenine dinucleotide
NO	- Nitric oxide
¹O₂	- Singlet oxygen
O₂⁻	- Superoxide radical
OH[•]	- Hydroxyl radical
ONOO⁻	- Peroxynitrite
PPO	- Polyphenol oxidase
ROO[•]	- Peroxyl radical
TBARS	- Thiobarbituric acid reactive substances
TBS	- Tris buffered saline
TCA	- Trichloro acetic acid
TE	- Tris EDTA
PEE	- Petroleum ether extract
BE	- Benzene extract
CE	- Chloroform extract
EAE	- Ethyl acetate extract
SEE	- Successive ethanolic extract
AQE	- Aqueous extract
DEE	- Direct Ethanolic extract
STD	- Standard
CSL	- <i>Cassia senna</i> leaf
<i>C. senna</i>	- <i>Cassia senna</i>