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ABBREVIATION AND SYMBOLS

α -tacopherol	= a type of vitamin E
4-HNE	= 4-Hydroxynonenal
AST	= Aspartate Aminotransferase
ATP	= Adenosine Triphosphate
BE	= Beetroot Extract
BHT	= Butylated hydroxytoluene
BW	= Body Weight
Ca ²⁺	= Calcium Ion
CAT	= Catalase
CCl ₂	= Dichlorocarbene
CCl ₃	= Trichloroethane Radical
CCl ₃ O ₂	= Trichloromethyl Peroxyl Radicals
CCl ₄	= Carbon Tetrachloride
CE	= Carbon tetrachloride Equivalent
CRD	= Completely Randomized Design
CVD	= Cardiovascular Disease
CYP	= Cytochrome P450
CYP2E1	= Cytochrome P450 2E1
CYP3A	= Cytochrome P450 3A
DNA	= Deoxyribonucleic acid

DNP	= 4-Dinitrophenylhydrazine
ETC	= Electron Transport Chain
ERO-1	= Endoplasmic Reticulum Oxidoreductin-1
Fe ²⁺	= Ferrous Ion
GC – MS	= Gas Chromatography Mass Spectrometry
GPx	= Glutathione Peroxidase
GR	= Glutathione Reductase
GSs	= Glutathione Synthetase
H ₂ O ₂	= Hydrogen peroxide
HIV	= Human Immunodeficiency Virus
HCOCl	= Formyl Chloride
HPLC	= High Performance Liquid Chromatography
KCl	= Kalium Chloride
Keap 1	= Kelch-like ECH-associated protein 1
MDA	= Malondialdehyde
MP	= Montreal Protocol
NaCl	= Natrium Chloride
NADPH	= Nicotinamide Adenine Dinucleotide Phosphatase
NaOH	= Sodium hydroxide
NF-κB	= Nuclear Factor Kappa-light-chain-enhancer of activated B cells
Nrf2	= Nuclear factor erythroid 2-Related Factor 2

Nrf2-ARE	= Nuclear factor erythroid 2-Related Factor 2 Antioxidant Response Element
PDI	= Protein Disulfide-Isomerase
PERK	= Protein kinase-like Endoplasmic Reticulum Kinase
Prx	= Peroxiredoxin
PUFA	= Polyunsaturated Fatty Acids
ROS	= Reactive Oxygen Species
SDS	= Sodium Dodecyl Sulfate
SOD	= Superoxide Dismutase
SPSS 23	= <i>Statistic Product and Service Solution 23</i>
TBA	= Thiobarbituric Acid
TBARS	= Thiobarbituric Acid Reacting Substance assay
TMP	= Tetramethylpiperidine
TRR	= Thioredoxin Reductase
Trx	= Thioredoxin