

## LIST OF ABBREVIATIONS

°C	Degree Celsius
·OH	Hydroxyl Free Radical
<sup>1</sup> O <sub>2</sub>	Singlet oxygen
3-OHM	Cyclic 3-hydroxymelatonin
AA-NAT	Arylalkylamine N-acetyltransferase
ABP	Androgen binding protein
AFMK	N1-acetyl-N2-formyl-5-methoxytryptamine
AgO <sub>2</sub>	Silver Oxide
ALC	Adult Leyding Cells
AMH	Anti-Mullerian Hormone
AMK	N-Acetyl-5-methoxy kynuramine
AMK	N1-acetyl-5-methoxykynuramine
AMMC	3-Acetamidomethyl-6-methoxy-cinnolinone
AMNK	N-Acetyl-5-methoxy-3-nitrokynuramine
ANOVA	Analysis of Variance
AR	Androgen receptor
ARGG	Anti-Rabbit Gamma globulin
As	Arsenic
BSA	Bovine Serum Albumin
BTB	Blood-Testis Barrier
BW	Body weight
cAMP	Cyclic Adenosine Monophosphate
Cd	Cadmium
CdCl <sub>2</sub>	Cadmium Chloride
CDKI	Cyclin Dependent Kinase Inhibitor
Cr	Chromium
Cr(II)	Divalent Chromium
Cr(III)	Trivalent Chromium
Cr(IV)	Tetravalent Chromium
Cr(V)	Pentavalent Chromium
Cr(VI)	Hexavalent Chromium
Cr <sub>2</sub> O <sub>3</sub>	Chromium Trioxide

CrCl <sub>3</sub>	Chromium Trichloride
Cu-Zn-SOD	Copper Zinc Dismutase
DHEA	Dehydroepi andro sterone
dl	decilitre
DNA	Deoxyribonucleic acid
DTNB	5,5'-cighiobix (2-nitrobednzoic acid
E	Eosin
E <sub>2</sub>	Estradiol
EDTA	Ethylene diamine tetra acetic acid
ELISA	Enzymed-linked immunosorbent assay
eNOS	Endothelial Nitric Oxide Synthase
ER	Estrogen Receptor
FSH	Follicle Stimulating Hormone
FSHR	Follicle Stimulating Hormone Receptor
G6PDH	Glucose-6- Phosphate Dehydrogenase
GIDC	Gujarat Industrial Development Corporation
GPx	Glutathione peroxidase
GR	Glutathione reductase
GSFC	Gujarat State Fertilizer Company
GSH	Glutathione
H <sub>2</sub> O	Water
H <sub>2</sub> O <sub>2</sub>	Hydrogen peroxide
hCG	Human chorionic Gonadotrophin
HClO	Hypochlorous acid
HIOMT	Hydroxy-indole-O-methyl transferase
iNOS	Inducible Nitric Oxide Synthase.
INT	Iodonitrotetrazolium
Ip	Intra perotential
IPCL	Indian Petrochemicals Limited
LD <sub>50</sub>	Lethal Dose 50
LH	Lutenizing hormones
LOAEL	Low Obsrvable Adverse Effect Level
LPO	Lipid Peroxidation
M	Molar

MDA	Malondialdehyde
mg	Milligram
ml	Millilitre
mM	Millimolar
Mn- SOD	Manganese Dismutase
mtNOS	Mitochondrial Nitric Oxide Synthase.
N	Normality
NADPH	Nicotinamide adenine dinucleotide phosphate
Ng	Nanogram
Ni	Nickel
NMAM	NIOSH manual of analytical methods.
NO	Nitric Oxide
NO•	Nitric oxide Radical
NOAEL	No Observed Adverse Effect Level
O <sub>2</sub>	Oxygen molecule
O <sub>2</sub> •-	Superoxide anion radical
ONOO-	Peroxynitrite anion
Pg	Picogram
pH	Negative logarithm of hydrogen ion concentration of a solution
PMS	Pheanazene methosulfate
ppm	Parts per million
RNA	Ribonucleic acid
ROS	Reactive Oxygen Species
-SH	Sulphahydril
SOD	Superoxide dismutase
TBA	Thiobarbituric acid
TBRS	Thiobarbituric acid reactive substances
TM	Trimetallic
TUNEL	Terminal deoxynucleotidyl transferase dUTP nick end labeling
WHO	World Health Organization
μ	Micron
μg	Microgram
μl	Microlitre
Mm	Micromolar