

LIST OF ABBREVIATIONS AND SYMBOLS

μ	-	Micro
μL	-	Micro liter
μM	-	Micromole
μm	-	Micro meter
ANOVA	-	Analysis of Variance
AUC	-	Area under the curve
BBB	-	Blood brain barrier
BNPs	-	Blend nanoparticles
BSA	-	Bovine serum albumin
C_0	-	Initial plasma concentration
CD14	-	Cluster of differentiation 14
CL	-	Clearance
CLSM	-	Confocal laser scanning microscopy
CMC	-	Critical micelle concentration
CNS	-	Central nervous system
COU	-	Coumarin-6
COX	-	Cyclo-oxygenase
Da	-	Dalton
DAPI	-	2-(4-Amidinophenyl)-6-indolecarbamide dihydrochloride
DMEM	-	Dulbecco's Modified Eagle's Medium

DMSO	-	Di methyl sulfoxide
DOX	-	Doxorubicin
DSC	-	Differential Scanning Calorimetry
DSPE PEG 2000	-	1,2-distearoyl-sn-glycero-3- phosphoethanolamine-N- [amino(polyethylene glycol)-2000]
EE	-	Entrapment Efficiency
EPR effect	-	Enhanced permeability and retention effect
FBS	-	Foetal bovine serum
FTIR	-	Fourier transform infrared
FTIR-PAS	-	Infra-Red Photoacoustic Spectroscopy
g	-	Gram
h	-	Hour
HLB	-	Hydrophilic lipophilic balance
HNPs	-	Hybrid nanoparticles
HPLC	-	High performance liquid chromatography
i.p.	-	Intraperitoneal
<i>i.v.</i>	-	Intravenous
IARC	-	International agency for research on cancer
IC ₅₀	-	Inhibitory concentration 50%
IgG	-	Immuno-γ-globulin
KDa	-	Kilo Dalton

Kg	-	Kilo gram
LDH	-	Lactate dehydrogenase
LDL	-	Low density lipid
Lipo	-	Liposomes
LOD	-	Limit of Detection
LOQ	-	Limit of Quantification
M	-	Molar
MDA	-	Malondialdehyde
MDR	-	Multidrug resistance
mg	-	Milli gram
Min	-	Minutes
mL	-	Milli liter
mM	-	Millimole
mm	-	Milli meter
MMPs	-	Matrix metalloproteinases
MRI	-	Magnetic resonance imaging
mRNA	-	Messenger RNA
MRT	-	Mean residence time
m-THMPP	-	Meso-tetra-(p-hydroxy methylphenyl) porphyrin
MTT	-	4,5-(dimethylthiazol-2-yl) 2,5-diphenyl- tetrazolium bromide

NADPH	-	Nicotinamide adenine dinucleotide phosphate
NCCS	-	National Centre for Cell Science
ng	-	Nanogram
nm	-	Nanometer
PBS	-	Phosphate buffer saline
PDA	-	Photo diode array
PEG	-	Polyethylene Glycols
P-gp	-	P-glycoprotein
PLA	-	Poly lactic acid
PLGA	-	Poly (D,L-lactide-co-glycolide)
PVA	-	Poly vinyl alcohol
R ²	-	Correlation co-efficient
RES	-	Reticuloendothelial system
RNA	-	Ribonucleic acid
ROS	-	Reactive oxygen species
RSV	-	Resveratrol
SCID	-	Severe combined immuno deficiency
SD	-	Standard Deviation
SLN	-	Solid lipid nanoparticles
t _{1/2}	-	Plasma half life
TEM	-	Transmission Electron Microscope

Tf	-	Transferrin
TLR4	-	toll like receptor 4
TPGS	-	D- α -Tocopheryl Polyethylene Glycol 1000 Succinate
TxA2	-	Thromboxane A2
USA	-	United States of America
v/v	-	Volume per volume
VEGF	-	Vascular endothelial growth factor
V _d	-	Volume of distribution
w/v	-	Weight per volume
WHO	-	World Health Organization
Wt	-	Weight
XPS	-	X-ray Photon correlation Spectroscopy
XRD	-	X-Ray diffraction