

List of Abbreviations

μM	Micromole
ABC	ATP binding Cassettes
ACE	Angiotensin Converting Enzyme
ADME	Absorption, Distribution, Metabolism and Excretion
AMPK	Adenosine Monophosphate Kinase
ANOVA	Analysis of Variance
ATP	Adenosine Tri Phosphate
AUC	Area Under the Curve
BBR	Berberine Chloride
cGMP	Cyclic Guanosine Monophosphate
CL	Clearance
CL _m /f _m	Apparent Clearance
CNS	Central Nervous System
COX-2	Cyclooxygenase-2
CTAB	Cetyl Trimethyl Ammonium Bromide
DSC	Differential Scanning Calorimetry
EE	Entrapment Efficiency
FST	Forced Swim Test
GIT	Gastro Intestinal Tract
HVC	Hydrophobic Vacuum Cleaner
IC	Inhibitory Concentration
IL-1	Interleukin- 1
InsR	Insulin Receptor

JNK	c-Jun N Terminal Kinase
KDa	Kilo Dalton
LD	Lethal Dose
LDL	Low Density Lipoprotein
LMH	Lactose Monohydrate
LOD	Limit of Detection
LOQ	Limit of Quantification
MAO	Monoamine Oxidase
MDCK Cells	Madin Darby Canine Kidney Cells
MDR	Multi Drug Resistance
MIC	Minimum Inhibitory Concentration
mM	Millimole
MMC	Minimum Microbicidal Concentration
MMS	Minimum Microbistatic Concentration
MPW	Millipore Water
MRT	Mean Residence Time
MW	Molecular Weight
NA	Noradrenaline
nm	Nanometer
NO	Nitric Oxide
PCL	Poly(ϵ) Caprolactone
PDI	Poly Dispersity index
PEG	Polyethylene Glycols
P-gp	Phosphoglycoprotein

PGs	Prostaglandins
PKC	Protein Kinase C
PPO	Poly Propylene Oxanes
PS	Particle Size
RSD	Relative Standard Deviation
SD	Standard Deviation
SLS	Sodium Lauryl Sulphate
SSG	Sodium Starch Glycolate
STC	Sodium Taurocholate
TMD	Transmembrane Domain
TST	Tail Suspension Test
USFDA	United States Food and Drug Administration
Vd	Volume of Distribution
Vitamin E TPGS	D-alpha-Tocopheryl Polyethylene Glycol 1000 Succinate
V _m /f _m	Apparent Volume of Distribution
WHO	World Health Organization
ZP	Zeta Potential