

**LIST OF SYMBOLS AND ABBREVIATIONS**

°C	Degree Celsius
μL	Micro litre
ABC	adenosine triphosphate (ATP)-binding cassette
AUC	Area under the plasma concentration Vs time curve
B/P	Brain-to-plasma
BBB	Blood brain barrier
BCRP	Breast cancer resistance protein
BCS	Biological classification system
C <sub>max</sub>	Maximum concentration
CNS	central nervous system
COSY	Correlation spectroscopy
CP	choroid plexus
CPCSEA	Committee for the purpose of control and supervision on experiments on animals
CV	Coefficient of variance
DPH	Diphenyl hydantoin (Phenytoin Sodium)
DPH-NP	Gelatin nanoparticles
DPH-NP-FA	Gelatin folate nanoparticles
DSC	Differential scanning calorimeter
EDC	1-Ethyl-3-(3-dimethylaminopropyl)carbodiimide
FTIR	Fourier transform-infrared
FTNMR	Fourier transform Nuclear magnetic resonance spectrometer
GCHS	Gas Chromatography-Head Space
gDQ	Gradient double quantum
Gtn	Gelatin
HPLC	High performance liquid chromaography
HSQC	Heteronuclear single quantum correlation
IAEC	Institutional animal ethical committee
IUPAC	International union of pure and applied chemistry

LOD	Limit of detection
LOQ	Limit of quantification
MDRP	Multidrug resistance protein
mg	Milli gram
mL	Milli litre
mM	Milli mole
MRP	Multidrug resistance-associated protein
MW	molecular weight
nm	Nano meter
NMR	Nuclear magnetic resonance
NP	Nanoparticles
PABA	para-aminobenzoic acid
PDA	Photo diode array
PDI	Polydispersity index
PDS	Paroxysmal depolarization shift
P-gp	P-glycoprotein
ppm	Parts per million
RMT	receptor mediated transport
SD	Standard deviation
SEM	Scanning electron microscope
$t_{1/2}$	Elimination half-life
Tmax	Time to maximum concentration
XRD	X-ray diffractometer