

LIST OF ABBREVIATIONS

AM	Asenapine Maleate
AM-SLNs	Asenapine maleate loaded solid lipid nanoparticles
AM-SMEEDS	Asenapine maleate loaded self microemulsifying drug delivery system
APIs	Active Pharmaceutical Ingredients
ACE	Angiotensin converting enzyme
ACN	Acetonitrile
AFM	Atomic Force Microscopy
Ach	Acetyl Choline
ANLC	Asenapine (ASM) loaded nanostructured lipid carriers
AM-HP β CD	Asenapine maleate-hydroxyl propyl β cyclodextrin inclusion complex
AUC	Area under the curve
ANOVA	Analysis of Variance
AR	Avoidance Response
BCS	Biopharmaceutics Classification System
BA	Bioavailability
BBB	Blood Brain Barrier
BP	British Pharmacopoeia
BBD	Box Behnken Design
CQA	Critical Quality Attribute
CPP	Critical Processing Parameters
$^{\circ}$ C	Degree Centigrade
CLNs	Candesartan Cilexetil -loaded solid lipid nanoparticles
CUR	Curcumin
CLSN	Confocal Laser Scanning Microscopy
C _{max}	Peak Plasma Concentration
CFR	Code of Federal Regulation
CAS	Chemical Abstract Service
CMC	Critical Micelle Concentration
CCD	Central Composite Design

CPCSEA	Committee for the Purpose of Control and Supervision of Experiments on Animals
CHX	Cycloheximide
CNS	Central Nervous System
CS	Conditioned Stimulus
CAR	Conditioned Avoidance Response
DAPI	4',6-diamidino-2-phenylindole
DoE	Design of Experiment
DSC	Differential Scanning Calorimetry
DMF	Drug Master File
DMSO	Dimethyl Sulfoxide
EPS	Extra Pyramidal Symptoms
EE	Entrapment Efficiency
FAE	Follicle Associated Epithelium
FTIR	Fourier Transform Infra-red spectrophotometer
FMEA	Failure Mode Effects Analysis
FMECA	Failure Mode Effects and Criticality Analysis
FBS	Fetal Bovine Serum
FACS	Fluorescence-activated cell sorting
GABA	Gamma Amino Butyric Acid
GRAS	Generally Recognized as Safe
GMS	Glyceryl Mono Stearate
GIT	Gastrointestinal Tract
HIV	Human Immuno deficiency Virus
HPH	High Pressure Homogenization
HPLC	High Performance Liquid Chromatography
HLB	Hydrophilic Lipophilic Balance
HSH	High Speed Homogenizer
HBSS	Hank's Balanced Salt Solution
IUPAC	International Union of Pure and Applied Chemistry
ISFI	In-situ forming implants
ICH	International Conference on Harmonization
IAEC	Institutional Animal Ethics Committee
LBDDS	Lipid Based Drug Delivery Systems

LP	Lipo Protein
LH	Lurasidone Hydrochloride
LH-SLNs	Lurasidone Hydrochloride loaded solid lipid nanoparticles
LH-SMEDDS	Lurasidone Hydrochloride loaded self microemulsifying drug delivery system
LCT	Long Chain Triglycerides
LD ₅₀	Lethal Dose, 50%
LFCS	Lipid Formulation Classification System
LC	Liquid Crystal
LOD	Limit of Detection
LOQ	Limit of Quantification
MCT	Medium Chain Triglycerides
MRT	Mean Residence Time
MEM	Minimum Essential Medium
MTT	(Dimethylthiazol-2-yl) 2,5-diphenyl-tetrazolium bromide
MFI	Mean Fluorescent Intensity
MK-801	Dizocilpine Maleate
NCEs	New Chemical Entities
NPs	Nano Particles
NMDAR	N- Methyl D- Aspartate Receptor
NLC	Nanostructured Lipid Carrier
O/W	Oil in Water
OVAT	One Variable at a Time
P-gp	Permeability Glycoprotein
PCP	phencyclidine
PIT	Phase Inversion Temperature
PDI	Polydispersity Index
PXRD	Powder X-Ray Diffraction
PEG	Polyethylene Glycol
PIP	Piperine
PLH	Pranlukast Hemihydrate
PhEur	European Pharmacopoeia
PBD	Plackett Burman Design
PS	Particle Size

PBS	Phosphate Buffer Saline
Papp	Apparent Permeability Coefficient
QT-SLNs	Quercetin-loaded solid lipid nanoparticles
QbD	Quality by Design
QAs	Quality Attributes
RES	Reticuloendothelial System
RESS	Rapid Expansion of Supercritical Carbon dioxide Solutions
RLX	Raloxifene
RXH	Raloxifene Hydrochloride
RP-HPLC	Reverse Phase High Performance Liquid Chromatography
RSD	Relative Standard Deviation
RSM	Response Surface methodology
RH	Relative Humidity
ROS	Reactive Oxygen Species
SLNs	Solid Lipid Nano Particles
SMEDDS	Self-Micro Emulsifying Drug Delivery Systems
SCF	Super Critical Fluid
SEDDS	Self Emulsifying Drug Delivery System
SV	Simvastatin
SNE	Self Nano Emulsification
SC	Subcutaneous
S/Cos	Surfactant:Co-surfactant ratio
TEM	Transmission Electron Microscopy
T _{max}	Time to reach peak plasma concentration
TPGS	D- α -tocopherol polyethylene glycol 1000 succinate
TEER	Trans Epithelial Electrical Resistance
USFDA	United States Food and Drug Administration
USP-NF	The United States Pharmacopeia and The National Formulary
US	Unconditioned Stimulus
XRD	X-Ray Diffraction
λ_{max}	Absorption Maxima