

List of Abbreviations

ACN:MOH	Acetonitrile : methanol
ACN	Acetonitrile
AED	Animal equivalent dose
AFF	Axial fracture force
ANOVA	Analysis of Variance
AUC	Area under the plasma concentration versus time curve
CMA	Critical material attributes
Cmax	Peak Plasma Concentration
Conc.	Concentration
CPCSEA	Committee for the Purpose of Control and Supervision of Experiments on Animals
CPP	Critical process parameters
CQA	Critical quality attributes
%EE	% Entrapment Efficiency
DMEM	Dulbecco's modified eagle medium
DMSO	Dimethylsulfoxide
DoE	Design of Experiment
DS	Design space
DSC	Differential Scanning Calorimetry
DMF	Dimethylformamide
FBX	Febuxostat
FBS	Fetal bovine serum
FTIR	Fourier Transform Infrared spectroscopy
HPLC	High Performance Liquid Chromatography
IAEC	Institutional Animal Ethics Committee

ICH	International Council on Harmonization
IUPAC	International Union of Pure and Applied Chemistry
LOD	Limit of Detection
LOQ	Limit of Quantification
MN Patch	Microneedle Patch
MP	Melting Point
MRT	Mean Residence Time
MTT	Thiazolyl Blue Tetrazolium Bromide
MW	Molecular weight
P188	Poloxamer 188
PAT	Process analytical techniques
PBS	Phosphate Buffer Saline
PD	Pharmacodynamic
PDI	Polydispersity Index
PDMS	Poly-dimethylsiloxane
PK	Pharmacokinetic
VS	Vesicle size
PVA	Poly vinyl alcohol
QbD	Quality by Design
QTPP	Quality target product profile
RH	Relative Humidity
RSM	Response Surface methodology
RT	Retention time
RSD	Relative Standard Deviation
TAC	Tacrolimus
Temp.	Temperature
SD	Standard deviation