

LIST OF ABBREVIATION

Acquired immunodeficiency syndrome	AIDS
Area Under Curve	AUC
Anionic Mesoporous silica	AMS
Ammonium hydroxide	NH ₄ OH
Biopharmaceutical Classification System	BCS
Blood-brain barrier	BBB
Brunauer-Emmett-Teller	BET
Barrett-Joyner-Halenda	BJH
Bioequivalence	BE
Central Nervous System	CNS
Cetyltrimethylammonium bromide	CTAB
Critical Micellar Concentration	CMC
Differential Scanning Calorimetry	DSC
Entrapment Efficiency	EE
Folded Sheet Mesoporous	FSM
FT-IR spectroscopy,	FTIR
Generally Regarded as Safe	GRAS
Highly Effective Antiretroviral Therapy	HEART
HIV Associated Neurocognitive Disorder	HAND
Hollow Mesoporous Silica	HMS
High performance liquid chromatography	HPLC
Human Immunodeficiency Virus	HIV
Hydrochloric acid	HCl
Institutional Animal Ethics Committee	IAEC
Internal Standard	IS
Korean Advanced Institute of Technology	KAT
Liquid Crystal Templating	LCT
Loading Efficiency	LE
Low- Hydroxypropyl cellulose	L-HPC
Lopinavir	LPV
Limit of Detection	LOD
Limit of Quantification	LOQ
Michigan State University	MSU
Mobil Composite Matter	MCM
Minimum Effective Concentration	MEC
Meso Cellular Form	MCF
Mesoporous Silica Nanoparticles	MSNs
Marketed Formulation	MF
Nanoparticles	NPs
Ordered Mesoporous Silica	OMS
Polyethylene Glycol	PEG
Powder X-ray Diffraction	PXRD
Pharmacokinetics	PK
polyoxyethylene 10-lauryl ether	PLE
Retention Time	R _t
Ritonavir	RTV

Santa Barbara Amorphous	SBA
Scanning Electron Microscopy	SEM
Solid Self-Microemulsifying Drug Delivery System	S-SMEDDS
Solid Lipid Nanoparticle	SLN
solid self-nanoemulsifying drug delivery system	S-SNEDDS
Standard Deviation	SD
Tetraethyl Orthosilicate	TEOS
Tetramethoxyvinylsilane	TMVS
Tetramethyl Orthosilicate	TMOS
Technische Universiteit Delft	TUD
Tetrakis (2-hydroxyethyl) Orthosilicate	THEOS
Transmission Electron Microscopy	TEM
Thermogravimetry Analysis	TGA