

List of Abbreviations and Symbols

Gastrointestinal tract	-	GIT
Biopharmaceutical classification system	-	BCS
Cromolyn sodium	-	CS
Peyer's patches	-	PP
Follicle associated epithelium	-	FAE
Gut-associated lymphoid tissue	-	GALT
One variable at a time	-	OVAT
Poly(D,L-lactide-co-glycolide)	-	PLGA
Glyceryl monostearate	-	GMS
Poly- ϵ -caprolactone	-	PCL
Polyvinyl alcohol	-	PVA
Response surface methodology	-	RSM
CS encapsulated polymeric nanoparticles	-	CS-PNs
CS encapsulated solid lipid nanoparticles	-	CS-SLNs
CS encapsulated polymer-lipid hybrid nanoparticles	-	CS-PLHNs
CS encapsulated poly- ϵ -caprolactone-chitosan based core-shell nanoparticles	-	CS-PCCSNs
Degree of deacetylation	-	DD
Sodium N-[8-(2-hydroxy-benzoyl)amino]caprylate	-	SNAC
Reverse phase high performance liquid chromatography	-	RP-HPLC
Fourier transform infrared spectroscopy	-	FTIR
Differential scanning calorimetry	-	DSC
High resolution transmission electron microscopy	-	HR-TEM
Atomic force microscopy	-	AFM
Confocal laser scanning microscopy	-	CLSM
Potassium bromide	-	KBr
Powder X-ray diffraction	-	PXRD
Fluorescein isothiocyanate	-	FITC
Encapsulation efficiency	-	EE
Polydispersity index	-	PDI

Apparent permeability coefficient	-	Papp
Differential interference contrast	-	DIC
Acetonitrile	-	ACN
Dichloromethane	-	DCM
Chloroform	-	CLF
Sodium bi carbonate	-	NaHCO ₃
Calcium carbonate	-	CaCO ₃
Calcium chloride	-	CaCl ₂
Hydrochloric acid	-	HCl
Sodium carbonate	-	Na ₂ CO ₃
Correlation coefficient	-	R ²
Coefficient of variation	-	%CV
Relative standard deviation	-	RSD
Standard deviation	-	SD
Standard error of mean	-	SEM
Absorbance unit	-	AU
Kilo dalton	-	kDa
Limit of detection	-	LOD
Limit of quantification	-	LOQ
Retention time	-	RT
Peak plasma concentration	-	C _{max}
Time for peak concentration	-	T _{max}
Mean residence time	-	MRT
Half life	-	T _{1/2}
Area under the curve	-	AUC
Relative bioavailability	-	Fr
Analysis of variance	-	ANOVA
Fischer test	-	F
Acid dissociation constant	-	pKa
Ultraviolet	-	UV
Hour	-	hr
Percentage	-	%
Milligram	-	mg

Microgram	-	Mg
Nanogram	-	Ng
Milliliter	-	ml
Rotations per minute	-	RPM
Design of Experiment	-	DoE
Degree	-	°
Celsius	-	C
Centimeter	-	Cm
Millimeter	-	Mm
Nanometer	-	nm
Kilo volt	-	kV
Miliampere	-	mA
Angstrom	-	Å
Minute	-	min
Hertz	-	Hz
Millivolt	-	mV
Relative humidity	-	RH
Wavelength maxima	-	λ_{max}
Percentage	-	%
weight/weight	-	w/w
weight/volume	-	w/v
volume/volume	-	v/v