

**List of abbreviations**

%	percentage
$\Phi_s$	sphericity
3D	3 dimensional
Å	angstroms
ANOVA	Analysis of variance
BCS	Biopharmaceutic classification system
Cm	centimetre
CO <sub>2</sub>	Carbon dioxide
C <sub>p</sub>	Peak plasma concentration
Cps	centipoise
CQA	Critical quality attributes
Df	Degrees of freedom
DNA	Deoxyribo nucleic acid
DOE	Design of experiments
DOT	Directly observed treatment
DOTS	Directly observed treatment short course
DRPs	Delayed release pellets
DSC	Differential Scanning Calorimetry
e.g.	example
EPTB	Extra-pulmonary tuberculosis
FCL	Flow controller
FDC	Fixed dose combination
FDS	Fraction of design space
FTIR	Fourier Transform Infrared Spectroscopy
g	grams
GIT	Gastro intestinal tract
GRBs	Gastroretentive beads
GRDDS	Gastroretentive drug delivery systems
GRGs	Gastroretentive granules
GRPs	Gastroretentive pellets
GRT	Gastric Residence Time
h	hours
HCl	Hydrochloric acid

---

HDPE	High density poly ethylene
HIV	Human immunodeficiency virus
HPLC	High performance liquid chromatography
HPMC	Hydroxy propyl methyl cellulose
HPTLC	High performance thin layer chromatography
ICH	International conference on harmonization
IP	Indian pharmacopoeia
IVIVC	In vitro in vivo correlation
JP	Japan pharmacopoeia
kg	kilograms
kV	kilo volt
LOD	limit of detection
LOQ	Limit of quantitation
LTBI	Latent tuberculosis infection
mA	milli amperes
MDR-TB	Multi-drug resistant tuberculosis
mg	milligrams
min	minutes
ml	millilitres
mm	millimetres
mM	millimolar
MMC	Migrating myoelectric cycle
MRT	Mean residence time
Mtb	<i>Mycobacterium tuberculosis</i>
mV	millivolt
N	normality
NADH	Nicotinamide adenine dinucleotide
NF	National Formulary
NLT	Not less than
nm	nanometres
NMT	Not more than
No.	number
°	degrees
ϑ	angle of repose

---

---

°C	Degree centigrade
ODS	Octa decyl silane
p value	Probability value
PEG	Poly ethylene glycol
Ph. Eur.	European Pharmacopoeia
Prob	Probability
psi	pounds per square inch
PTB	Pulmonary tuberculosis
PVP	Polyvinyl pyrrolidone
QTPP	Quality target product profile
R <sup>2</sup>	Coefficient of determination
RH	Relative humidity
RNA	Ribo nucleic acid
RP-HPLC	Reverse phase high performance liquid chromatography
RPM	Rotations per minute
RSD	Relative standard deviation
SD	Standard deviation
SEM	Scanning Electron Microscopy
TA	Thermal analyzer
TB	Tuberculosis
USP	United states pharmacopoeia
UV	Ultra violet
v/v	volume/volume
vs.	Versus
w/v	weight/volume
w/w	weight/weight
WHO	World Health Organisation
XDR-TB	Extensively drug resistant tuberculosis
$\lambda_{\max}$	wave length of maximum absorbance
$\mu\text{m}$	microns