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Abbreviations

ACN	Acetonitrile
AcoH	Acetic acid
ANOVA	Analysis of Variance
API	Active Pharmaceutical Ingredient
BEH	Ethylene Bridged Hybrid
CCD	Central Composite Design
CE	Capillary Electrophoresis
CSP	Chiral Stationary Phase
DAD	Diode Array Detector
DEA	Diethyl Amine
DFN	Darifenacin hydrobromide
DOE	Design Of Experiments
DS	Design Space
ELSD	Evaporative Light Scattering Detector
ESI	Electro Spray Ionization
EtoH	Ethanol
FDA	Food and Drug and Administration
FTN	Flow Through Needle
GC	Gas Chromatography
GC-MS	Gas Chromatography-Mass Spectroscopy
GMP	Good Manufacturing Practices
H ₂ O ₂	Hydrogen Peroxide

H ₃ PO ₄	Phosphoric acid
HCl	Hydrochloride/Hydrochloric acid
HETP	Height Equivalent Theoretical Plates
HPLC	High Pressure Liquid chromatography
HPTLC	High performance Thin Layer Chromatography
ICH	International Conference on Harmonization
ICP	Inductively Coupled Plasma spectroscopy
ICP-MS	Inductively Coupled Plasma-Mass Spectroscopy
Imp	Impurity
IPDO	Integrated Product Development
IR	Infrared spectroscopy
K ₂ HPO ₄	Dipotassium hydrogen orthophosphate
KH ₂ PO ₄	Potassium dihydrogen orthophosphate
KSM	Key Starting Material
LC	Liquid Chromatography
LC-ESI-MS	Liquid Chromatography-Electros Spray Ionization -Mass Spectroscopy
LC-MS	Liquid Chromatography- Mass Spectroscopy
LC-MS-MS	Liquid Chromatography-Mass Spectroscopy-Mass Spectroscopy
LC-NMR	Liquid Chromatography- Nuclear Magnetic Resonance spectroscopy

XL

LC-UV	Liquid Chromatography- Ultra Violet spectroscopy
LOD	Loss On Drying
Log P	Partition co-efficient
LOQ	Limit of Quantification
M.Wt	Molecular Weight
MeOH	Methanol
MS	Mass Spectroscopy
N	Theoretical Plates
NA	Not Applicable
NaH ₂ PO ₄ .H ₂ O	Sodium dihydrogen orthophosphate monohydrate
NaOH	Sodium hydroxide
ND	Not detected
NMR	Nuclear Magnetic Resonance spectroscopy
ODS	Octadecyl Silica
OVAT	One Variable at a Time
PA	Purity Angle
PALO	Palonosetron Hydrochloride
PDA	Photo Diode Array
Pka	Acid dissociation constant
QbD	Quality by Design
QSM	Quaternary Solvent Manager
RB- flask	Round bottom flask

XLI

RF	Response Factor
RP-LC	Reversed Phase-Liquid chromatography
RRF	Relative Response Factor
RRT	Relative Retention Time
RSD	Relative Standard Deviation
RT	Retention Time
S.A	Surface Area
S.E	Standard Error
S/N	Signal to Noise ratio
SD	Standard Deviation
SFC	Supercritical Fluid Chromatography
SM-FTN	Solvent Manager-Flow Through Needle
SMUI	Single Maximum Unknown Impurity
T	Temperature
TEA	Triethyl amine
TFA	Trifluoro acetic acid
TH	Threshold
THF	Tetrahydrofuran
TIDA	Term Ionic Detector using Alkali metal salt
TLC	Thin Layer Chromatography
TUV	Tunable Ultra Violet
UPLC	Ultra Performance Liquid chromatography

UPLC-H	Ultra Performance Liquid Chromatography H class
UV	Ultra Violet spectroscopy
VF	Volumetric Flask
VWD	Variable Wavelength Detector
ZT	Zolpidem Tartrate