

## LIST OF TABLES

<b>Table no.</b>	<b>Title</b>
Table 4.1	Validation parameters of HPLC analytical method
Table 4.2	Effect of $\beta$ -CD: cross linker ratio on the Particle Size, PI and ZP of different batches of nanosponges
Table 4.3	Saturation solubility studies of formulations with their enhancement factors
Table 4.4	Particle size analysis and EE of different batches of Drug loaded nanosponges
Table 4.5	Validation parameters for HPLC bioanalytical method
Table 4.6	Pharmacokinetic parameters for praziquantel in rats after oral administration of PZQ-NS and PZQ suspension(0.5% w/v Methyl Cellulose suspension of pure drug )at an equivalent praziquantel dose of 50 mg/kg (values are reported as mean $\pm$ s.d., n=6)
Table 5.1	Optimization of process variables
Table 5.2	Optimization of formulation Variables
Table 5.3	Effect of homogenization time (HT) on Particle size (PS), Polydispersity index (PI), and zeta potential (ZP)
Table 5.4	Effect of sonication time (ST) on Particle size (PS), Polydispersity index (PI), and zeta potential (ZP)
Table 5.5	Effect of volume of formulation (VF) on Particle size (PS), Polydispersity index (PI), and zeta potential (ZP)
Table 5.6	The effect of Lipophilic surfactant concentration (LSC) on characterizing parameters of SLN

- Table 5.7 The effect of Hydrophilic surfactant concentration (LSC) on characterizing parameters of SLN
- Table 5.8 The effect of Lipid concentration (LC) on characterizing parameters of SLN
- Table 5.9 The effect of drug concentration (DC) on characterizing parameters of SLN
- Table 5.10 The effect of Lipid types on characterizing parameters of SLN
- Table 5.11 The effect of surfactant types on characterizing parameters of SLN
- Table 5.12 The characterization parameters of optimized formulation for TM, TP and TS as lipid matrix
- Table 5.13 Effect of storage at refrigerated conditions ( $5\pm3^{\circ}\text{C}$ ) and at  $25^{\circ}\text{C}/65\%$  RH on characterizing parameters of SLN
- Table 5.14 Stability studies of various PZQ loaded SLN at different pH conditions
- Table 5.15 Effect of sterilisation on characterizing parameters of PZQ SLN
- Table 5.16 The *in-vitro* release kinetics model of optimized PZQ solid lipid nanoparticles in Phosphate buffer (pH 6.8) as dialysis medium.
- Table 6.1 Optimization of binary lipid composition for PZQ-BSLN
- Table 6.2 Effect of binary lipid composition on characterizing parameters of BSLN
- Table 6.3 Optimization of drug concentration for PZQ-BSLN
- Table 6.4 The effect of drug concentration (DC) on characterizing parameters of BSLN

- Table 6.5 Effect of storage at refrigerated conditions ( $5\pm3^{\circ}\text{C}$ ) and at  $25^{\circ}\text{C}/65\%$  RH on characterizing parameters of BSLN
- Table 6.6 Stability studies of various PZQ-BSLN at different pH conditions
- Table 6.7 Effect of sterilisation on characterizing parameters of PZQ-BSLN
- Table 6.8 The *in-vitro* release kinetics model of PZQ-BSLN in Phosphate buffer (pH 6.8) as dialysis medium.
- Table 7.1 Animal group distribution for *in vivo* pharmacokinetic studies
- Table 7.2 Pharmacokinetic parameters for praziquantel in rats after oral administration of PZQ-SLN, PZQ-SLN and PZQ suspension at an equivalent praziquantel dose of 50 mg/kg
- Table 7.3 Pharmacokinetic parameters for praziquantel in rats after single subcutaneous administration of PZQ-SLN, PZQ-BSLN and PZQ suspension at an equivalent praziquantel dose of 50 mg/kg
- Table 7.4 Pharmacokinetic parameters for praziquantel in rats after single intramuscular administration of PZQ-SLN, PZQ-BSLN and PZQ suspension at an equivalent praziquantel dose of 50 mg/kg
- Table 7.5 Pharmacokinetic parameters for praziquantel in rats after intra-duodenal administration of PZQ-SLNs at an equivalent praziquantel dose of 50 mg/kg to rats treated with Cycloheximide (CHM) and saline, respectively
- Table 8.1 Anticestodal activity of PZQ SLN and PZQ-BSLN against larval and immature *H.diminuta* infections in rats
- Table 8.2 Anticestodal activity of PZQ SLN and PZQ-BSLN against mature *H.diminuta* infections in rats