

**S 1.** Dissolution profiles of PEL from SRSD (F6) at different pHs (Mean±SD, n=3).

**S2.** Release kinetic parameters of pelubiprofen in SRSD formulation

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| Formulation | Zero order |  | First order |  | Higuchi model | Hixson-Crowell |  | Korsmeyer-Peppas |
| r2 | k1 |  | r2 | k2 |  | r2 | k3 |  | r2 | k4 |  | r2 | k5 | n |
| SRSD (F6) | 0.7635 | 9.0136 |  | 0.9252 | 0.2151 |  | 0.9489 | 30.416 |  | 0.879 | 0.244 |  | 0.9451 | 38.3089 | 0.4274 |

r2, correlation coefficient;k1 – k5,constants of release kinetics; n, diffusional exponent



**S3.** IVIVC of SRSD (F6) formulation