

3.2 Precision

3.2.1 System Precision

The purpose of system precision is to find the degree of agreement between individual test results when the procedure is applied repeatedly to multiple injections (10 injections) of the same homogenous sample in 100% concentration, as in Table (7).

Table 7 : System Precision Test Results

Parameters	Esomeprasole	Tadalafil
Conc. %	100%	100%
Average Area of 10 injections	1329442	1086961
RSD%	1.85	1.83
Asymmetry (USP)	1.15	1.08
Resolution	N.A	5.24
Theoretical Plates (USP)	14272	15427
Initial Retention time	3.183	3.773
Final Retention time	3.184	3.788

As seen from the given results, RSD% value were below 2% (according to USP), indicates a good system suitability, and the chromatogram of system precision is shown in figure (6).