

Table 3.5. System parameters for simultaneous measurement of diluent-containing amlodipine, atorvastatin and glimepiride (conc. =0.05)

Parameters	Amlodipine (conc)	Glimepiride (conc)	Atorvastatin (conc)
Average area of 10 injections	219848	263328	223365
RSD%	0.32	0.13	0.20
Asymmetry	1.2	1.2	1.1
Theoretical plates	8016	9255	8814
Resolution	N.A	5.5	10.74
Initial retention time	7.1	8.0	10.4
Final retention time	7.8	8.9	11.2

Similarly, in plasma the RSD% values were also below 2% indicating good system suitability for measuring the drugs in plasma and the initial and last retention times of each drug do not overlap indicating good resolution (Table 3.6).

Table 3.6. System parameters for simultaneous measurement of plasma-containing amlodipine, atorvastatin and glimepiride (conc. =0.08, 0.4, 0.1 respectively)

Parameters	Amlodipine (conc)	Glimepiride (conc)	Atorvastatin (conc)
Average area of 10 injections	858456	1318493	4120863
RSD%	0.27	0.53	0.60
Asymmetry	1.33	1.21	1.34
Theoretical plates	7972	9530	8764
Resolution	N.A	3.7	5.72
Initial retention time	7.1	8.2	10.4
Final retention time	7.9	8.9	11.3