

Table 3.27. Effect of changing the pH -0.2 on the detection parameters in plasma

Parameter	Amlodipine	Glimepiride	Atrovastatin
Assay%	100.9	98.3	99.1
RSD%	1.26	2.12	0.64

Table 3.28. Effect of changing the pH +0.2 on the detection parameters in plasma

Parameter	Amlodipine	Glimepiride	Atrovastatin
Assay%	101.5	98.4	100.1
RSD%	1.17	2.57	0.52

Furthermore, acid or base degradation was tested on the detection parameters of the assay. A volume of 1N HCL or 1N hydroxide was added to solution of amlodipine, glimepiride and atorvastatin for 30 min and then analysis was performed. The results showed that %RSD values were below 1% (Table 3.29, 3.30) and (Fig. 3.21, 3.22).

Table 3.29. Effect of acid on the detection parameters of amlodipine, atorvastatin, and glimepiride

Parameter	Amlodipine	Glimepiride	Atrovastatin
Area	236094	255657	208543
RSD%	0.77	0.39	0.43
Theoretical plates	8316	9293	8856
Asymmetry	1.20	1.10	1.05
Resolution	N.A	5.52	5.56