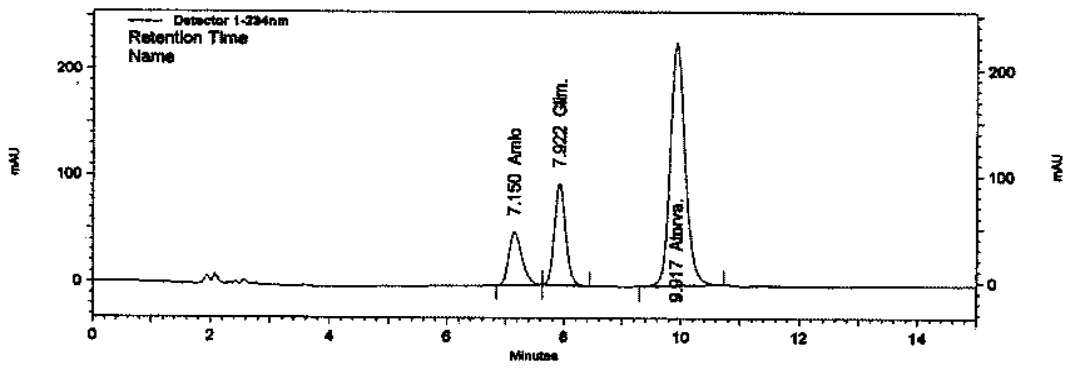

Figure 3.17 Chromatogram of amlodipine, glimepiride, and atorvastatin in plasma using 240 nm wavelength

Similarly, slight change in pH of the diluent was made to evaluate if thus change affect the detection parameters of the drugs. The assay% and RSD% were close to 100% and <1%, respectively indicating slight pH change has no effect on detection parameters of amlodipine, glimepiride or atorvastatin (Table 3.25, 3.26) and (Fig. 3.18-3.20). In plasma, however, the RSD% of glimepiride was more than 2% indicating that pH changes affected its measurement and reduced the precision of the its assay (Table 3.26, 3.27).

Table 3.25. Effect of changing the pH -0.2 on the detection parameters.

Parameters	Amlodipine	Glimepiride	Atrovastatin
Assay%	100.1	100.9	99.2
RSD%	0.29	0.62	0.12

Table 3.26. Effect of changing the pH +0.2 on the detection parameters.

Parameters	Amlodipine	Glimepiride	Atrovastatin
Assay%	101.1	99.0	99.6
RSD%	0.26	0.58	0.09