

3.11. Conclusion

The above results indicated that the method is suitable to determine amlodipine, glimepiride and atorvastatin simultaneously in two different matrices, diluent and plasma. Such method is robust enough and not affected by slight variations in the wavelength, pH, Organic composition and temperature. Even though the resolution, retention times and peak heights were good enough but did change in different conditions. All in all, such method is suitable for assaying three drugs in diluent and plasma. However, future studies involving the pharmacokinetics and plasma bioavailability of the three drugs following oral administration of a drug dosage form containing; amlodipine, atorvastatin, and glimepiride is needed with mass spectrometry in order to detect the plasma levels (ng/ml) of such drugs.