

## Chapter Three

### Result and discussion

#### 3.1. Absorbance profile and wavelength selection

The best absorbance profile for the three drugs, atorvastatin, amlodipine, and glimepiride, was between 220-240 nm. However, for assaying the three drugs simultaneously using HPLC, wavelength at 237 nm was selected for its best absorptivity for the three drugs (Figure 3.1).

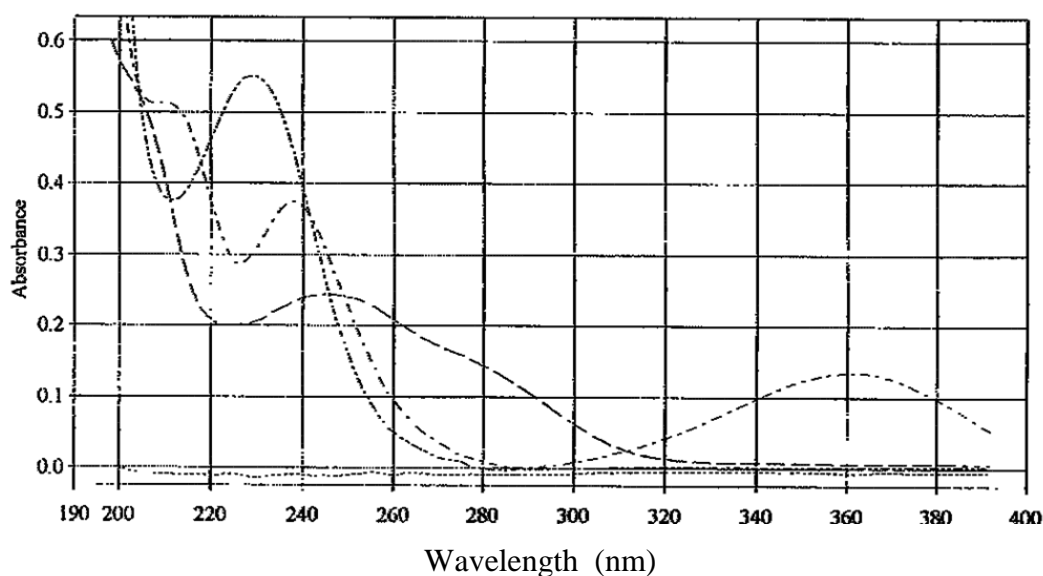


Figure 3.1. The absorbance profiles of atorvastatin (-.-.-.-.-), amlodipine (.....), glimepiride (-----) in relation to the baseline sample.

#### 3.2 Chromatographic Conditions

The best chromatographic condition for measuring atorvastatin, amlodipine and glimepiride simultaneously was based on the resolution and the retention time of each drug. It was found the mixture of mobile phase (Table 3.1) at pH 8.0 gave the best resolution.