

Where:

a= first half peak width at 10% of peak height on the ascending side of the peak.

b= second half peak width at 10% of peak height on the descending side of the peak.

#### *1.8.14. Relative standard deviation*

A statistical parameter used to verify the closeness between the test results and it is expressed by the following equation:

$$RSD = \frac{S}{X} * 100$$

Where:

S= standard deviation.

RSD= relative standard deviation.

X= average of set of n measurements.

The RSD of  $\leq 1\%$  for  $n < 5$  is desirable .

### **1.9 Aim of the study**

The aim of the present work was to develop and validate a simple, fast, reliable, selective and accurate HPLC method with UV detection for the simultaneous determination of atorvastatin, glimepiride and amlodipine in a solution.