

### 3.7 Selectivity

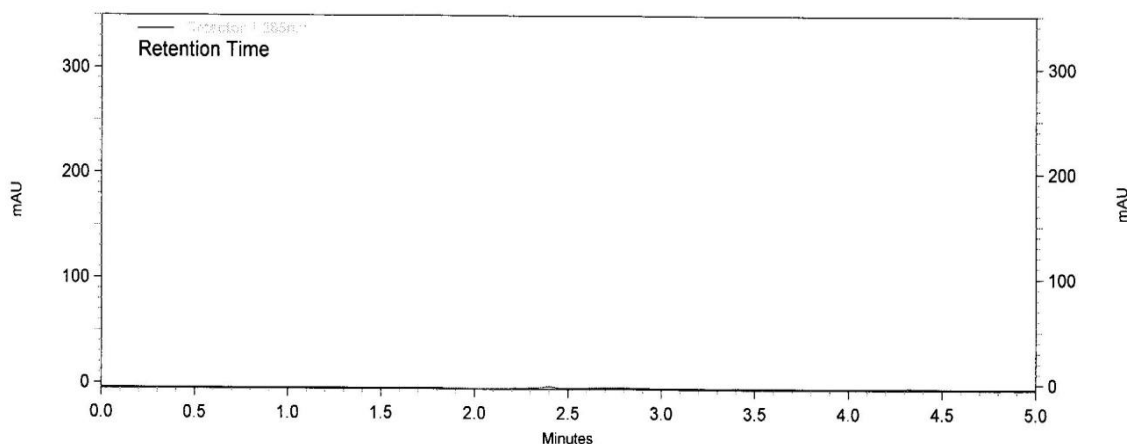
It is important to study the selectivity of the method to determine the capacity of the method to measure accurately and specifically in the presence of active ingredients, placebo and another ingredient.

A standard, sample, solvent and placebo solution were injected into the column according to the parameters stated under the developed method. It was found that there is no interference between the analyte and both the solvent and placebo.

#### 3.7.1 Placebo analysis

A placebo solution prepared in the laboratory based on the most common and available excipients.

They are Avicel 65%, Mg-stearate 5%, Lactose 15%, and Starch 15%, by weighing 700 mg in 50 mL of mobile phase as solvent. The placebo sample is injected triple in system. The chromatogram of placebo analysis is shown in figure (29).



**Figure (29): Chromatogram of placebo analysis**

As seen from the chromatogram of placebo analysis, no interference between the analyte and both of solvent and placebo.