

## **2.6 Preparation of Standards Solutions**

A stock solution of each of esomeprazole and tadalafil was prepared by dissolving about 60 and 40 mg (highly pure material > 99.7%), respectively in 50.0 mL volumetric flask of mobile phase. 5.0 mL from each stock solution were diluted into 50.0 mL mobile phase. Concentrations of about 120 and 80 µg/mL were obtained, respectively.

## **2.7 Preparation of Samples Solutions**

A sample solution was prepared by dissolving about 860 mg of Nexium® equals to 60mg of the active ingredient esomeprazole and 718 mg Cialis® equals to 40mg of the active ingredient tadalafil from each finished product in 50.0 mL of mobile phase (stock solution). 5.0 mL from each stock solution were diluted up to 50.0 ml using the mobile phase. Consequently, concentrations of about 120 and 80 µg/mL were obtained, respectively for esomeprazole and tadalafil.

## **2.8 Preparation of Placebo Solution**

The sample was prepared in laboratory based on the mos common excipients in the market, namely (Starch 15%, Lactose 15%, Mg-sterate 5% and Avicel 65%) without any active-ingredients. A placebo solution was prepared by addition of about 700 mg in 50.0 mL mobile phase.

## **2.9 Chromatographic Conditions**