

## 2. Experimental

### 2.1 Chemicals and reagents:

The following reagents and chemicals were used:

- Acetonitrile HPLC grade (TEDIA).
- Avicel (ACROS).
- Potassium dihydrogen phosphate buffer (Merck).
- Lactose (Merck).
- Methanol HPLC grade (Fisher).
- Mg-sterate (Merck).
- Phosphoric acid (Merck).
- Starch (ACROS).
- Water HPLC grad (TEDIA).
- Esomeprazole (Pharma International), B.N: 1397 ED: 02/2015
- Tadalafil (Pharma International), B.N: 12584, ED: 11/2014
- Nexium®, B.N: JN272, ED: 11/2013
- Cialis®, B.N: A897336, ED: 02/2014

### 2.2 Equipments

The following equipments were used:

- Thermo (HPLC): (spectra system, AS 3000) pump and degasser connected to a UV 3000. Injections were performed using auto sampler type (spectra system), 25  $\mu$ L sample loop and Chromo-Quest Computing integrator software.