**5.3 ASSAY RESULT FOR FORMULATION**

**Label contains:** Each tablet contains

Rosuvastatin– 10 mg

Fenofibrate - 160 mg.

Average weight of each tablet is 430 mg

**Purity of working standards:**

**1.** Rosuvastatin: %purity- 99.7%

2. Fenofibrate: % purity – 99.5%

**Sample preparation:**

20 tablets were weighed and crushed, from the powdered tablets, weighed accurately about 430 mg (10mg of Rosuvastatin and 160 mg Fenofibrate ) into a 100 ml volumetric flask and 50 ml of water was added. The mixture was subjected to sonication for 20 min with intermediate shaking for complete extraction of drugs. Filtered and cooled to room temperature and solution was made up to mark with water. From the above solution 1 ml is taken and further diluted in 10 ml volumetric flasks with water. To acquire a concentration of 10mg of Rosuvastatin and 160 mg Fenofibrate .

**Standard preparation:**

Accurately weighed quantity of 10mg of Rosuvastatin and 160 mg Fenofibrate was taken in a 100 ml volumetric flask and 50 ml of water was added. The mixture was subjected to sonication for 20 min with intermediate shaking for complete extraction of drugs. Filtered and cooled to room temperature and solution was made up to mark with water. From the above solution 1 ml is taken and further diluted in 10 mL volumetric flasks with mobile phase. To acquire a concentration of 10mg of Rosuvastatin and 160 mg Fenofibrate .

**Procedure:**

Separately injected both the standard (2 injections) and sample preparations (2 injections) into the chromatographic system and recorded the peak area responses.

% percentage content =

Sample Area Concentration of Standard Average Weight

---------------------- X ------------------------------------------- X ------------------------ X P

Standard Area Concentration of Sample L.C

**Rosuvastatin**

% percentage content =

987068 10 430

-------------------- X -------------------- X ----------------- X 99.7 = 99.70

9870430 430 10

**Fenofibrate**

% percentage content =

542102 160 430

------------------ X ----------------- X -------------------- X 99.5 = 98.7

546546.7 430 160