

Chapter two

Experimental

The experimental work mentioned below was conducted at Dar Al Dawa pharmaceutical company at the quality control department. In addition all chemicals, equipments, were provided by this pharmaceutical company.

(The method was applied according to The British Pharmacopeia).

2.1. Chemicals

The following reagents and chemicals were used: Acetonitrile HPLC grade (Rankem), water (milli-Q) distilled water, phosphoric acid 85% (Riedel-Dehaen), triethylamine (Scharlau), methanol HPLC grade (Merck), diethyl ether (Biosolve) and ethylacetate (Acros). The following drugs were provided from Dar-Al Dawa: atorvastatin calcium powder, batch number: DA-B12-02-000433\01045, amlodipine besylate, batch number: RAMLP20047, and glimepiride CEP Powder, batch number: 061202207 and propylparaben powder, batch number: K43999727.

2.2. Equipments

The following equipments were used: Column: BDS Hypersil C18 (PART NO 28205-254630) BIM (mm) 250*4.6, particle (μ) LOT: 9424, SN: 0780122T, HPLC Thermo Finnigan, Sureveyor UV-VIS plus detector, HPLC 007 TSP, Ultrasonic, (Elmasonic), pump for filtration of mobile phase (Vacuubrand), nylon syringe membrane filters 0.45 μ m (Titan2), UV-VIS Thermo scientific, Evolution 300 UV-VIS, and Whatman phase separator (silicon treated).