

## **2.2 Instrumentation**

An API Mass spectrometer was used and composed of the following:

On-line vacuum Degasser (Agilent 1200),

Solvent delivery systems pump (Agilent 1200).

Autosampler (Agilent 1200).

Thermostat column compartment (Agilent 1200).

API 3000 Mass Spectrometer,

ACE 5, C18 (50 x 2.1 mm), 5 $\mu$ m

Computer System, Windows XP, SP3, Data Management Software 1.5.2

Bath Sonicator Crest model-175T (Ultra Sonics CORP.)

Sartorius balance BP 2215

Sartorius pH meter (Professional meter PP-25)

Centrifuge (eppendorf 5417C)

## **2.3 Animals**

All animal experiments were performed in compliance with FELASA guidelines (Federation of European Laboratory Animal Science Association) and the study protocol was approved by the Research Committee (No. 5, January 30/2013) at the Faculty of Pharmacy, University of Petra, Amman, Jordan. Adult male Sprague Dawley laboratory rats were supplied by the animal house of Petra University. The Average weight of rats was approximately 220.0g, and they were in healthy condition.