

Chapter Two

2. Materials and methods

2.1 Materials

Chemicals and drugs

Potassium chloride and ethylene diamine tetra acetic acid were purchased from (Acros organics, BVBA Geel, Belgium). Deionized water (Nanopur™), methanol advanced gradient grade, and acetonitrile were obtained from (Fisher Scientific Ltd., Loughborough, UK). Potassium dihydrophosphate, penicillin, streptomycin, fetal bovine serum, sodium lauryl sulphate, and magnesium sulfate were all purchased from (Sigma-Aldrich, St. Louis, Missouri), sodium bicarbonate (Merck, Darmstadt, Germany), phosphoric acid (Kyowa Medex Co., Tokyo, Japan), and triethylamine (Tedia Company, Inc., USA) were also used. All chemicals were of analytical grade, whereas solvents were of HPLC grade.

HBSS (Ca²⁺, and Mg²⁺ free), HBSS (with Ca²⁺, and Mg²⁺), and Williams's Medium E were obtained from (Invitrogen, Carlsbad, CA, USA). Collagenase II and L-glutamine were purchased from (Gibco BRL, Gaithersburg, MD, USA).

Propranolol hydrochloride was a kind gift from The Arab Pharmaceutical Manufacturing (APM, Salt, Jordan), whereas Glucosamine hydrochloride was obtained from Biocon (Bangalore, India; batch No: DA-B10-04-000650/02493). Rifampin and Florane® (isoflurane) was a kind gift from Hikma Pharmaceuticals (Amman, Jordan), whereas