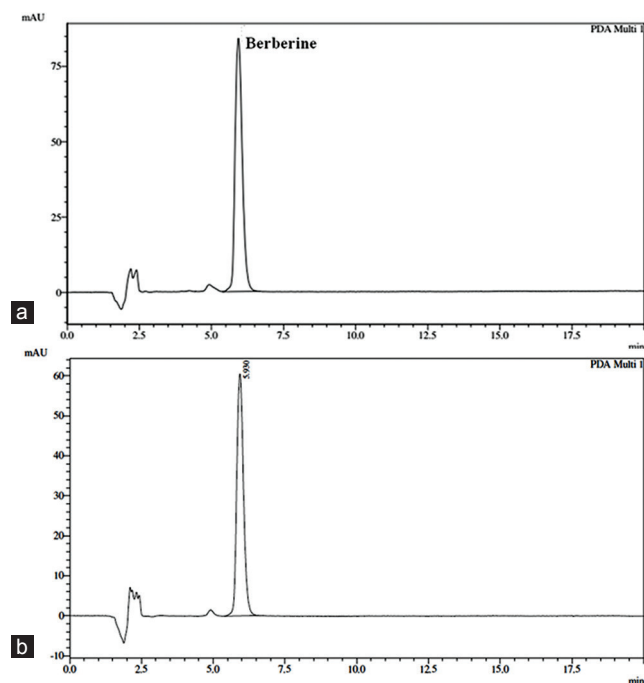


Figure S1: High-performance liquid chromatography chromatogram of *Berberis aristata* hydroalcoholic extract. (a) High-performance liquid chromatography–ultraviolet chromatogram of Berberine standard reference; (b) high-performance liquid chromatography–ultraviolet chromatogram of the *Berberis aristata* hydroalcoholic extract used in the experiment



Supplementary Material

High-performance Liquid Chromatography Analysis

The high-performance liquid chromatography chromatographic analysis was carried out using Shimadzu high-performance liquid chromatography system, equipped with a LC2010A pump with Shimadzu Photodiode Detector-M10Avp Photodiode Array Detector and ultraviolet detector with LC solutions software. An isocratic flow, using solution A (78 mg of sodium lauryl sulfate and 5.5 g of tartaric acid) was dissolved in 250 ml of water collected from sartorius water purification system and acetonitrile in ratio of 50:50, over a 20 min total running time, was accomplished through a silica CN 5 μ size, 250 mm \times 4.6 mm (Merck) using an injection volume of 20 μ L at a flow rate of 1.8 mL/min, while observing at 343 nm at temp of 25°C. The peak integration was from base to base. The results were expressed as percentage (%) per g of the lyophilized extract. The total berberine content present in *Berberis aristata* hydroalcoholic extract was found to be 6.7% w/w of dry extract [Figure S1].