

Effect of ethanolic leaves extracts of *Annona Muricata*.Linn on hyperlipidemic rats

Nesrein, S.Salim; Enas M.Mekawi ;Ibrahem, M.Abd El-Aleem and Nadia, Y.A.Attia

Abstract

Annona muricata (soursop) is an evergreen tropical which has become an important crop because of its tasty flavor, high pulp content, and nutritional value and antioxidant properties. This study aimed to determine the phytochemicals as well as antioxidants present in the plant. The ethanolic leaf extract contains a high phenol content and flavonoids 508.27 mg/GAE extract and 35.99 mg/QE extract respectively. Ethanolic extract of *Annona muricata* leaves was tested for antioxidant capacity with DPPH and ABTS method. The result showed that antioxidant capacity of *Annona* leaves were 85.9 % and 79.29, respectively. Oral ethanolic extracts of administration of *Annona* at different levels (200 and 300 mg/kg) to albino rats showed significant decrease in liver and kidney function, levels of total lipids, triglycerids, total cholesterol and LDL-cholesterol comparing with positive control.

Keywords

Annona muricata Linn.; Antioxidant capacity; DPPH; extraction, hyperlipidemic.