

E-BABE Extraction and Isolation of Triterpenes from Petroleum ether and Ethyl acetate Extracts of Bark of *Ziziphus spina christi* (L)Desf



Sadiq I. Shina

Department of Chemistry, Faculty of Science, Federal University, Nigeria

Abstract

The powder bark was extricated serially with n-hexane and ethyl acetic acid derivation. The plant fabric (1.5 kg) was extricated (defatted) with 4 L of n-hexane with the help of a soxhlet extractor. The extricate was permitted to dry and after that extricated with 3 L of ethyl acetic acid derivation. The extricates were sifted and concentrated at decreased weight on a rotational evaporator. Silica-gel (200 g) was stuffed in a glass column (30 x 35 cm). The column was damp stuffed in petroleum ether. The extricate (3g) in a fine powdered frame was stacked onto the column and permitted to stabilize for 4 hours some time recently elution commenced. The column was eluted in stepwise angle elution strategy. The elution started with petroleum ether 100% and chloroform was included gradiently from to 100%. A few divisions (10 ml each) were collected and checked by TLC and showered with 5% sulphuric corrosive. Comparative divisions were pooled together and concentrated in vacuo to grant rise to one major compounds labeled as Z1. Further refinement of the compound was carried out by rehashing column chromatography. Another compound Z2 was disconnected from the ethyl acetic acid derivation extricate utilizing comparable strategy over. The ethyl acetic acid derivation 3g was stacked onto a column pressed with 150g of silica gel in n-hexane. *Ziziphus spina christi* (L)Desf. may be a plant utilized in Nigerian folk medicine for the treatment of syphilis, cancer additionally have antihelmenthic and antidiarrhetic properties. Serial thorough extraction was performed on the unrefined test with the help of Soxhlet extractor to gotten the extricate. Through serial column chromatography two compounds were gotten: betulin (lup-20(29)-en-3 β ,28-diol) and betulinic corrosive (3 β -hydroxy-lup-20(29)-en-28-oic corrosive) have been confined from petroleum ether and ethyl acetic acid derivation extricates of the bark of *Ziziphus spina christi*. The compound was characterized on the premise of 1D-NMR (1HNMR, 13CNMR, 2D-NMR (HSQC) and IR Spectroscopic considers. Comes about was favorably compared with other spectrals values.



Biography

SADIQ ISMAILA SHINA has completed his PhD at the age of 36 years from Usmanu Danfodiyo University Sokoto, Nigeria and presently Coordinator 100 level CHEMISTRY Department, Faculty of science, Federal University Dutse Jigawa State, Nigeria. I have published more than 20 papers in reputed journals and local jourrnars.

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