ABSTRACT

Extraction method was used in this research was percolation with methanol. Hot water was added in methanol extract, let it cool, and then was extracted with Charaux-Paris method namely in order being extracted with n-hexane, diethyl ether, ethyl acetate and n-butanol. Flavonoid was isolated with column chromatography, with silica gel 60 G as a stationary phase. From this process, it has been found that flavonoid in fraction chloroform-methanol with ratio of 8:2 and 7:3. Flavonoid was purified with TLC preparative method. The result from TLC preparative was dissolved in methanol and evaporated until dry. The isolat flavonoid was identified with TLC, UV-Vis spectrophotometry and infra red spectrophotometry. From the result of identified with UV-Vis spectrophotometer could been interpreted that the compound was flavonol with OH groups in C₅, C₃ and C₄. Free antiradical activity of isolat flavonoid was researched with TLC autography and UV-Vis spectrophotometry methods by using DPPH. From this research, it has been found that EC₅₀ of isolat flavonoid was 18.76 ± 0.5099 ppm.

Keywords: flavonoid; Eugenia polyantha Wight; free radical scavenger; DPPH