

## 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 be interpreted that the compound was flavonol with OH groups in C<sub>5</sub>, C<sub>3'</sub> and C<sub>4</sub>. Free antiradical activity of isolat flavonoid was researched with TLC autography and UV-Vis spectrophotometry methods by using DPPH. From this reseach, it has been found that EC<sub>50</sub> of isolat flavonoid was 18,76 ± 0,5099 ppm.

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

