

## ABSTRACT

### **Antioxidant activity of ethanol extract, methanol fraction, fraction III methanol, and *myricitrin* isolates of *Syzygium polyanthum* (Wight) Walp. Leaves.**

Antioxidant activity of ethanol extract, methanol fraction, fraction III methanol, and *myricitrin* isolates were analyzed by spectrophotometer at wavelength 497 nm, 517 nm dan 537 nm. IC<sub>50</sub> values of the four samples were analyzed by using linier regression. *Myricitrin* isolates have the lowest IC<sub>50</sub> than others, so more active as antioxidant than three samples.

Antioxidant activity also performed by TLC-bioautography against DPPH free radicals. The four samples placed on TLC plate and were eluted by chloroform : methanol : water : formic acid = 10 : 4 : 1 : 1. Then, TLC plates sprayed with 0,2% DPPH solution. The presence of purple DPPH bleaching on TLC plate-bioautography was meant to show the existence of antioxidant activity. These result showed ethanol extract, methanol fraction, fraction III methanol, and *myricitrin* isolates have antioxidant activity but not only *myricitrin* which influence the activity of samples.

Keyword : ethanol extract, methanol fraction, fraction III methanol, *myricitrin* isolate, *Syzygium polyanthum*, *myricitrin*, free radical scavenger, DPPH, spectrophotometer, TLC-bioautography.