

## ABSTRAK

**AFRINA, N., 2015, UJI AKTIVITAS ANTIOKSIDAN FRAKSI *n*-HEKSANA, ETIL ASETAT DAN AIR EKSTRAK ETANOLIK DAUN SUKUN (*Artocarpus altilis*) TERHADAP RADIKAL DPPH (1,1 difenil-2-picrylhydrazil), SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.**

Daun sukun (*Artocarpus altilis*) mengandung senyawa saponin, polifenol, tanin dan flavonoid. Senyawa polifenol dan flavonoid berfungsi sebagai antioksidan. Penelitian ini bertujuan mengetahui aktivitas antioksidan ekstrak etanolik, fraksi *n*-heksana, fraksi etil asetat, fraksi air ekstrak etanol daun sukun terhadap radikal DPPH dengan parameter IC<sub>50</sub>.

Serbuk daun sukun dimaserasi dengan etanol 70%. Ekstrak etanol selanjutnya difraksinasi dengan pelarut *n*-heksana, etil asetat, dan air. Ekstrak dan fraksi daun sukun diuji aktivitas antioksidannya terhadap radikal DPPH kemudian dihitung persen peredaman dan IC<sub>50</sub>nya. Rutin digunakan sebagai kontrol positif.

Hasil pengujian aktivitas antioksidan menunjukkan fraksi *n*-heksana, fraksi etil asetat, fraksi air dan ekstrak etanol mempunyai nilai IC<sub>50</sub> sebesar 98,42 ± 0,86 ppm; 18,57 ± 0,14 ppm; 42,43 ± 0,37 ppm; 53,27 ± 0,04 ppm. Fraksi etil asetat daun sukun mempunyai aktivitas antioksidan paling tinggi.

Kata kunci : Daun sukun (*Artocarpus altilis*), Antioksidan, DPPH.

## ABSTRACT

**AFRINA, N., 2015, TEST OF ANTIOXIDANT ACTIVITY *n*-HEKSANE, ETHYL ACETATE AND WATER FRACTIONS FROM ETHANOLIC EXTRACT OF BREADFRUIT LEAVES (*Artocarpus altilis*) TO RADICAL DPPH (*1,1 diphenyl-2-picrylhydrazil*), THESIS, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA.**

Breadfruit leaves (*Artocarpus altilis*) contains saponins, polyphenols, tannins and flavonoids. Polyphenols and flavonoids act as antioxidants. This study aims to determine the antioxidant activity of ethanolic extract, fractions of *n*-hexane, ethyl acetate fraction, water fraction of ethanol extract of breadfruit leaves to DPPH radicals with IC<sub>50</sub> parameters.

Breadfruit leaves powder was macerated with 70% ethanol. The ethanol extract was further fractionated with *n*-hexane, ethyl acetate and water. Extract and the fractions of breadfruit leaves were tested antioxidant activity to DPPH radical then it were calculated percent reduction and IC<sub>50</sub> value. Rutin was used as a positive control.

The results showed that the antioxidant activity of *n*-hexane, ethyl acetate, water fractions and ethanol extracts had IC<sub>50</sub> value of 98,42 ± 0,86 ppm; 18,57 ± 0,14 ppm; 42,43 ± 0,37 ppm; 53,27 ± 0,04 ppm. Ethyl acetate fraction of breadfruit leaves has the highest antioxidant activity.

Keywords: Breadfruit leaves (*Artocarpus altilis*), Antioxidant, DPPH.