INTISARI

Nurharisna, L., 2018, UJI AKTIVITAS ANTIOKSIDAN EKSTRAK ETANOLIK DAUN MUDA DURIAN (*Durio zibethinus* L.) TERHADAP RADIKAL DPPH *(1,1 diphenyl-2-picrylhydrazil)*, KARYA TULIS ILMIAH, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Antioksidan adalah zat penghambat reaksi oksidatif akibat radikal bebas. Senyawa fenolik dan flavoniod dapat berfungsi sebagai antioksidan. Tanaman durian (*Durio zibethinus* L.) mengandung senyawa fenolik dan flavonoid. Penelitian ini bertujuan untuk mengetahui aktivitas antioksidan pada ekstrak etanolik daun muda durian terhadap radikal DPPH dengan parameter IC_{50} dan melakukan skrining fitokimia ekstrak etanolik daun muda durian.

Serbuk daun muda durian dimaserasi menggunakan etanol 70 %. Ekstrak daun muda durian dilakukan uji skrining fitokimia. Selanjutnya ekstrak daun muda durian diuji aktivitas antioksidannya terhadap radikal DPPH dengan mengukur absorbansi dengan spektrofotometer, kemudian dihitung persen peredaman dan nilai IC_{50}. Rutin digunakan sebagai kontrol positif.

Hasil penelitian ini menunjukkan bahwa ekstrak etanolik daun muda durian memiliki aktivitas antioksidan dengan nilai IC_{50} sebesar 177,37 ppm. Hasil skrining fitokimia ekstrak etanolik daun muda durian menunjukkan bahwa daun muda durian mengandung senyawa fenolik, tanin, flavonoid, dan saponin.

Kata kunci: Daun muda durian (*Durio zibethinus* L.), antioksidan, DPPH.

ABSTRACT

Nurharisna, L., 2018, ANTIOXIDANT ACTIVITY TEST OF ETHANOLIC EXTRACT OF YOUNG LEAVES OF DURIAN (*Durio zibethinus* L.) TO DPPH (*1,1 diphenyl-2-picrylhydrazil*) RADICAL, SCIENTIFIC PAPER, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA.

Antioxidant is oxidative reaction inhibitor damage induced by free radical. A phenolic compound and flavonoid act as antioxidant. Durian (*Durio zibethinus* L.) plant contains phenolic compound and flavonoid. The study was aimed to determine the antioxidant activity of ethanolic extract of young leaves of *durian* to DPPH radicals with IC_{50} parameters and screening phytochemistry of ethanolic extract of young leaves of *durian.*

The young leaves of *durian* powder was macerated with 70% ethanol. The young leaves of *durian* extract was analyzed the phytochemistry screening. Then young leaves of *durian* extract was tested antioxidant activity to DPPH radical by measuring absorbance by spectrophotometer, then it was calculated the percentage of reduction and IC_{50} value. Rutin was used as a positive control.

This research result showed that ethanolic extract of young leaves of *durian* had antioxidant activity with a value IC_{50} of 177,37 ppm. The young leaves of *durian* ethanolic extract contained phenolic compound, tannin, flavonoid, and saponin.

Keywords: The young leaves of *durian* (*Durio zibethinus* L.), antioxidant, DPPH