INTISARI

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

Antioksidan merupakan senyawa penting dalam menjaga kesehatan tubuh yang berfungsi sebagai penangkap radikal bebas. Daun tua durian (*Durio zibethinus* L.) mengandung senyawa fenolik, diantaranya adalah flavonoid dan tanin. Senyawa fenolik berfungsi sebagai antioksidan. Penelitian ini bertujuan untuk mengetahui aktivitas antioksidan ekstrak etanolik daun tua durian terhadap radikal DPPH dengan parameter nilai IC_{50} dan melakukan skrining fitokimia ekstrak etanolik daun tua durian.

Ekstrak daun tua durian diperoleh dengan cara dimaserasi dengan etanol 70%. Ekstrak dilakukan skrining fitokimia dan dilakukan pengujian aktivitas antioksidan terhadap radikal DPPH lalu dihitung nilai aktivitas peredamannya (IC_{50}). Kontrol positif yang digunakan adalah rutin.

Hasil penelitian diperoleh nilai IC_{50} dari ekstrak etanolik daun tua durian sebesar 112,66 ppm ± 1,03. Hasil skrining fitokimia menunjukkan daun tua durian mengandung senyawa fenolik, tanin, flavonoid, dan saponin.

Kata Kunci: Daun tua durian (*Durio zibethinus* L.), antioksidan, DPPH.

ABSTRACT

Mariastuti, Z., 2018, ANTIOXIDANT ACTIVITY TEST OF ETHANOLIC EXTRACT OF OLD 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 important compound to keep the health body with has function as free radical catcher. Durian old leaf (*Durio zibethinus L*.) contains phenolic compounds, among other are flavonoid and tannin. The study was aimed phenolic compounds is as antioxidant activity of ethanolic extract old leaf durian against DPPH radical witch parameter value IC_{50} and doing the phytochemical scheme of ethanolic extract of old leaves of durian.

Old leaf extract of durian obtained by maceration with etanol 70%. Extracts were performed by phytochemical screening and testing of antioxidant activity against radicals DPPH then calculated the value of the immersion activity.

Research result obtained value IC_{50} from ethanolic extract of old leaves of durian amount 112,66 ppm ± 1,03. The results of phytochemical screening show that old leaves containing durian phenolic compounds tannin and flavonoid.

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