

INTISARI

Dalam pengobatan tradisional di Indonesia, daun dari tanaman dadap serep berkhasiat untuk mengobati sakit kepala, batuk serta untuk minuman bagi wanita sehabis melahirkan. Senyawa fenolik merupakan salah satu kandungan bioaktif dari daun dadap serep. Penelitian ini dilakukan untuk mengetahui aktivitas antioksidan fraksi etil asetat ekstrak etanol daun dadap serep secara *in vitro* yang didasarkan pada efek peredaman radikal bebas larutan 1,1-difenil-pikrilhidrazil (DPPH) yang dinyatakan dengan *inhibition concentration 50* (IC_{50}). Kandungan fenolik total juga ditentukan menggunakan pereaksi Folin-Ciocalteu dengan baku standar asam galat yang dinyatakan dengan massa ekivalen asam galat. Prinsip metode ini adalah senyawa fenolik teroksidasi dalam suasana basa dan pereaksi Folin-Ciocalteu tereduksi menjadi larutan berwarna biru yang dapat diukur dengan spektrofotometer visibel pada panjang gelombang 750 nm. Hasil penelitian menunjukkan bahwa fraksi etil asetat ekstrak etanol daun dadap serep mempunyai aktivitas antioksidan dengan nilai IC_{50} sebesar $245,15 \pm 4,26 \mu\text{g/mL}$ dan kandungan fenolik total sebesar $8,51 \pm 0,18$ ekivalen asam galat per g fraksi etil asetat ekstrak etanol daun dadap serep dan metode yang digunakan belum tervalidasi.

Kata kunci: daun dadap serep (*Erythrina subumbrans* Hassk), fraksi etil asetat, antioksidan, DPPH, kandungan fenolik total

ABSTRACT

In Indonesian traditional medicine, the leaves of dadaps (*Erythrina subumbrans* (Hassk.) Merr.) are efficacious to cure headaches, cough and can also be used as a drink for women after childbirth. Phenolic compound is one of the bioactive contents in dadaps leaves. This research was conducted to determine the antioxidant activities of ethyl acetate fraction of ethanol extract of dadaps leaves in vitro based on the reducing effect of free radical of 1,1-diphenyl-pikrilhidrazil (DPPH) solution expressed by inhibition concentration 50 (IC₅₀). The total phenolic contents was also determined by using the Folin-Ciocalteu reagent with gallic acid standard expressed by the mass of gallic acid equivalents. The principle of this method is oxidized phenolic compounds in alkaline medium and Folin-Ciocalteu reagent is reduced to a blue solution that can be measured by the visible spectrophotometer at a wavelength of 750 nm. The results showed that the ethyl acetate fraction of ethanol extract of dadaps leaves had antioxidant activities with IC₅₀ valued in the amount of 245.15 ± 4.26 µg/mL and the total phenolic content of 8.51 ± 0.18 gallic acid equivalent per g of ethyl acetate fraction of ethanol extract of dadaps leaves and the method has not been validated.

Keywords : dadaps leaves (*Erythrina subumbrans* (Hassk.) Merr.), ethyl acetate fraction, antioxidant, DPPH, total phenolic content