

ABSTRAK

Judul : Uji Total Fenol dan Total Flavonoid Ekstrak Etanol, *n*-Heksana, Etil Asetat, dan *n*-Butanol Daun Pegagan (*Centella asiatica*)
Nama : Ade Maya Aprilia
Program Studi : Farmasi

Tanaman pegagan (*Centella asiatica*) merupakan salah satu tanaman yang berpotensi sebagai tanaman obat secara tradisional untuk pengobatan seperti penyembuh luka, radang, demam, batuk, asma, wasir, lepra, disentri, dan antioksidan. Daun pegagan mengandung bahan aktif seperti alkaloid, saponin, tanin, flavonoid, steroid, triterpenoid dan glikosida. Penelitian ini bertujuan untuk menguji kadar total fenol dan total flavonoid ekstrak etanol 96%, *n*-heksana, etil asetat, dan *n*-butanol daun pegagan (*Centella asiatica*). Daun pegagan diekstraksi secara maserasi dengan menggunakan beberapa pelarut yaitu etanol 96%, etil asetat, *n*-heksana, dan *n*-butanol. Analisis kadar total fenol dan total flavonoid dilakukan dengan menggunakan spektrofotometri UV-Vis, masing-masing pada panjang gelombang 740 nm dan 425 nm. Kadar total fenol dan total flavonoid pada pelarut *n*-butanol memiliki nilai tertinggi yaitu $76,78 \pm 3,44$ (mg GAE/g ekstrak) dan $72,95 \pm 1,28$ (mg QE/g ekstrak). Pada ekstrak etanol 96%, *n*-heksana dan etil asetat kadar total fenol masing-masing sebesar $61,03 \pm 3,44$; $45,75 \pm 0,77$; $49,60 \pm 2,33$; sedangkan kadar total flavonoid masing-masing sebesar $51,95 \pm 0,74$; $70,01 \pm 0,50$; dan $50,46 \pm 0,53$. Berdasarkan hasil penelitian, diketahui bahwa kadar total fenol dan total flavonoid ekstrak pegagan dengan pelarut *n*-butanol memiliki kadar total fenol dan flavonoid tertinggi.

Kata kunci: *Centella asiatica*, total fenol, total flavonoid.

ABSTRACT

Title : Total Phenol and Total Flavonoid Tests of Ethanol Extract, *n*-Hexane, Ethyl Acetate, and *n*-Butanol *Centella asiatica* leaves
Name : Ade Maya Aprilia
Study Program: Pharmacy

Pegagan (*Centella asiatica*) is a plant that has the potential as a traditional medicinal plant for treatments such as wound healing, inflammation, fever, cough, asthma, hemorrhoids, leprosy, dysentery, and antioxidants. Pegagan leaves contain active ingredients such as alkaloids, saponins, tannins, flavonoids, steroids, triterpenoids, and glycosides. This study aims to test the total phenol and flavonoid test levels of ethanol extract, *n*-hexane, ethyl acetate, and *n*-butanol of Pegagan (*Centella asiatica*) leaves. Pegagan leaves were extracted by maceration using several solvents, namely 96% ethanol, ethyl acetate, *n*-hexane, and *n*-butanol. Total phenol and flavonoid levels were analyzed using UV-Vis spectrophotometry at 740 nm and 425 nm, respectively. Total phenol and flavonoid levels in *n*-butanol solvent had the highest values, 76.78 ± 3.44 (mg GAE/g extract) and 72.95 ± 1.28 (mg QE/g extract). In the ethanol, *n*-hexane, and ethyl acetate extracts, the total phenol content was 61.03 ± 3.44 ; 45.75 ± 0.77 ; 49.60 ± 2.33 , while the total flavonoid content was 51.95 ± 0.74 ; 70.01 ± 0.50 ; and 50.46 ± 0.53 . The research results show that the total phenol and flavonoid content of gotu kola extract with *n*-butanol solvent has the highest total phenol and flavonoid content.

Keywords: *Centella asiatica*, total phenols, total flavonoids.