ANALISA KADAR FLAVONOID TOTAL EKSTRAK ETIL ASETAT BUNGA KETEPENG CINA (*Senna alata* (L.) Roxb) DENGAN METODE SPEKTROFOTOMETRI UV-VISIBEL

ABSTRAK

Flavonoid merupakan senyawa fenolik yang paling banyak ditemukan pada tanaman. flavonoid dapat melindungi tanaman dari sinar uv serta sebagai pigmen warna pada tanaman. Berdasarkan B, BPOM daun ketepeng cina mengandung flavonoid. Penelitian ini bertujuan untuk mengetahui adanya senyawa flavonoid serta kadar flavonoid total pada ekstrak etil asetat bunga ketepeng cina. Bunga ketepeng cina diekstraksi dengan metode maserasi menggunakan pelarut etil asetat. Uji kualitatif flavonoid menggunakan metode sianidin test dan uji kuantitatif kadar flavonoid total menggunakan spektrofotometri uv-vis. Bunga ketepeng cina sebanyak 150 gram diekstraksi 3 liter etil asetat didapatkan ekstrak kental sebesar 15,6074 gram. Hasil penelitian diperoleh bahwa ekstrak bunga ketepeng cina bewarna kuning kecoklatan, kadar air sebanyak 6,03% dan kadar abu 4,01% . Hasil uji kualitatif menggunakan metoda sianidin tes didapatkan hasil positif dengan perubahan warna menjadi kuning kehitaman. Hasil uji kuantitatif dengan panjang gelombang 437 nm diperoleh kadar flavonoid total pada bunga ketepeng cina sebesar 35,557 mg QE/g atau 3,5557 %.

Kata Kunci : Bunga *Senna alata* (L.) Roxb, kadar total, flavonoid, etil asetat

ANALYSIS OF TOTAL FLAVONOID LEVELS OF ETHYL ACETATE EXTRACT OF BUNGA KETEPENG CINA (*Senna alata* (L.) Roxb) WITH UV-VISIBLE SPECTROPHOTOMETRY METHOD

ABSTRACT

Flavonoids are the most common phenolic compounds found in plants. One of the roles of flavonoids is to protect plants against UV rays and as color pigments in plants. Based on B, BPOM, Senna alata (L.) Roxb leaves contain flavonoid compounds. This research aims to determine the presence of flavonoid compounds and total flavonoid levels in the ethyl acetate extract of the Senna alata (L.) Roxb plant. Senna alata (L.) Roxb was extracted using the maceration method using ethyl acetate solvent. The qualitative test of flavonoids used the cyanidin test method and the quantitative test of total flavonoid levels used UV-vis spectrophotometry. 150 grams of Senna alata (L.) Roxb extracted from 3 liters of ethyl acetate obtained a thick extract of 15.6074 grams. The results showed that Senna alata (L.) Roxb extract had a brownish yellow color, water content of 6.03% and ash content of 4.01%. The results of the qualitative test using the cyanidin test method obtained positive results with a color change to blackish yellow. The results of quantitative tests with a wavelength of 437 nm showed that the total flavonoid content in Senna alata (L.) Roxb was 35.557 mg QE/g or 3.5557%.

Keywords : Bunga *Senna alata* (L.) Roxb, total content, flavonoids, ethyl acetate