ABSTRAK

PENETAPAN KADAR FENOLIK TOTAL EKSTRAK METANOL BATANG CAWAT HANOMAN (*Tetrastigma* sp. (*Miq*) *Planch*) DENGAN METODE SPEKTROFOTOMETRI UV-Vis (Oleh Amin Maksum Al Habibi; Pembimbing: M. Hidayatullah, M.Farm., apt. Hafiz Ramadhan, M.Sc.,; 2024; 58 halaman)

Cawat Hanoman merupakan tanaman khas endemik Kalimantan yang memiliki aktivitas antioksidan salah satunya senyawa fenolik. Senyawa fenolik memiliki aktivitas sebagai antioksidan, antimikroba, antikarsinogenik dan antiinflamasi. Penelitian ini dilakukan untuk mengetahui kadar fenolik total dari ekstrak metanol batang cawat hanoman (*Tetrastigma* sp (*Miq*.) *Planch*) menggunakan metode Spektrofotometri UV-Vis. Metode ekstraksi yang digunakan yaitu maserasi dengan penetapan kadar menggunakan reagen Folin-Ciocalteu dengan standar baku Asam galat diukur pada panjang gelombang maksimum 740 nm dan *operating time* 50-55 menit. Hasil penelitian diperoleh kadar fenolik total sebesar 5,624±0,01 GAE (%b/b±SD)

Kata Kunci : *Tetrastigma* sp. (*Miq*.) *Planch*, batang, fenolik, metanol

ABSTRAC

DETERMINATION OF TOTAL PHENOLIC CONTENT OF METHANOLIC EXTRACT OF CAWAT HANOMAN (*Tetrastigma* sp. (*Miq*) *Planch*) BY UV-Vis SPECTROFOTOMETRY METHOD (By Amin Maksum Al Habibi; Advisor: M. Hidayatullah, M.Farm., apt. Hafiz Ramadhan, M.Sc.,; 2024; 58 pages)

Cawat Hanoman is a typical plant endemic to Kalimantan that has antioxidant activity, one of which is phenolic compounds. Phenolic compounds have activities as antioxidants, antimicrobials, anticarcinogenic and anti-inflammatory which are topics of research and utilization for now. This study was conducted to determine the total phenolic content of methanol extract of cawat hanoman stem (Tetrastigma sp (Miq.) Planch) using UV-Vis Spectrophotometric method. The extraction method used was maceration with determination of levels using Folin-Ciocalteu reagent with standard gallic acid measured at the maximum wavelength of UV-Vis spectrophotometry 740 nm with operating time 50-55 minutes. The results obtained total phenolic content of 5.624 ± 0.01 GAE (%b / b ± SD)

Keywords : *Tetrastigma* sp. (*Miq*.) *Planch*, stems, phenolic, methanol