ABSTRAK

PENGARUH DERAJAT HALUS SIMPLISIA TERHADAP RENDEMEN EKSTRAK ETANOL 96% DAN SKRINING FITOKIMIA PADA DAUN GANDARIA (*Bouea macrophylla* Griff*)*. (Oleh Bella Aprillia; Pembimbing apt. Revita Saputri, M.Farm,_apt. Eka Fitri Susiani, M.Sc; 2024; 63 halaman)

Derajat halus serbuk merupakan salah satu faktor yang berpengaruh terhadap jumlah zat aktif yang tersari pada proses maserasi. Semakin kecil ukuran derajat halus simplisia dapat meningkatkan jumlah zat aktif yang tersari dan jumlah rendemen ekstrak. Nilai rendemen yang tinggi menunjukan proses ekstraksi yang efektif. Tujuan penelitian ini untuk mengetahui pengaruh derajat halus simplisia terhadap nilai rendemen ekstrak etanol 96% dan skrining fitokimia pada daun gandaria (*Bouea macrophylla* Griff*).* Simplisia pada daun gandaria dibuat dalam ukuran mesh yang berbeda yaitu mesh 12, mesh 20, mesh 40, mesh 60, mesh 80 kemudian diekstraksi menggunakan pelarut etanol 96% dengan menggunakan metode maserasi. Ekstrak kental yang didapat kemudian dihitung nilai rendemen dan di uji skrining fitokimia. Hasil rendemen ekstrak pada daun gandaria berdasarkan perbedaan ukuran derajat halus yaitu mesh 12, mesh 20, mesh 40, mesh 60, dan mesh 80 berturut turut yaitu (11,1006%), (11.2092%), (15,9862%), (16,2388%), (20,7926%). Hasil skrining pada mesh 40, mesh 60, mesh 80 mengandung flavonoid, saponin, terpenoid, fenol namun pada mesh 12, mesh 20 hanya mengandung flavonoid, terpenoid, fenol dan tidak mengandung saponin. Kesimpulan dari penelitian ini menunjukan bahwa derajat halus simplisia berpengaruh terhadap nilai rendemen pada ekstrak daun gandaria (*Bouea macrophylla* Griff*).*

Kata kunci: Gandaria(*Bouea macrophylla* Griff), Mesh , rendemen, Skrining, Etanol 96%

ABSTRACK

THE EFFECT OF SIMPLICIA FINE DEGREE ON THE YENDMENT OF 96% ETHANOL EXTRACT AND PHYTOCHEMICAL SCREENING ON GANDARIA LEAVES *(Bouea macrophylla* Griff*).* (By Bella Aprillia; Supervisor of apt. Revita Saputri, M.Farm, apt. Eka Fitri Susiani, M.Sc; 2024; 63 page)

The degree of fineness of the powder is one of the factors that influences the amount of active substances extracted during the maceration process. The smaller the degree of fineness of simplicia can increase the amount of active substance extracted and the amount of extract yield. A high yield value indicates an effective extraction process. The aim of this research was to determine the effect of the degree of fineness of simplicia on the yield value of 96% ethanol extract and phytochemical screening on gandaria (*Bouea macrophylla* Griff) leaves. Simplicia in gandaria leaves is made in different mesh sizes, namely mesh 12, mesh 20, mesh 40, mesh 60, mesh 80 then extracted using 96% ethanol solvent using the maceration method. The thick extract obtained was then calculated for the yield value and subjected to a phytochemical screening test. The yield results of extracts from gandaria leaves are based on differences in fine degree sizes, namely mesh 12, mesh 20, mesh 40, mesh 60, and mesh 80 respectively, namely(11,1006%), (11.2092%), (15,9862%), (16,2388%), (20,7926%). The screening results on mesh 40, mesh 60, mesh 80 contained flavonoids, saponins, terpenoids, phenols but on mesh 12, mesh 20 only contained flavonoids, terpenoids, phenols and did not contain saponins. The conclusion of this research shows that the degree of fineness of simplicia influences the yield value of gandaria leaf extract (*Bouea macrophylla* Griff).

Keywords : Gandaria (*Bouea macrophylla* Griff), mesh , yield, screening, Ethanol 96%