

ABSTRAK

PENETAPAN KADAR FENOL DAN FLAVONOID TOTAL EKSTRAK ETANOL 70% DAUN KASTURI (*Mangifera casturi* Kosterm) HASIL SOKLETASI (Oleh: Evi Rasuanti Aprillia; Pembimbing: Norhayati dan Revita Saputri; 2024; 112 Halaman)

Kasturi (*Mangifera casturi* Kosterm) adalah jenis tumbuhan mangga yang khas dan asli dari Kalimantan Selatan. Masyarakat umum memanfaatkan tumbuhan kasturi (*Mangifera casturi* Kosterm) dengan mengkonsumsi buahnya dan daunnya sebagai obat tradisional yang dipercaya sebagai antioksidan karena mengandung senyawa fenol dan flavonoid. Penelitian ini bertujuan untuk mengetahui senyawa metabolit sekunder fenol dan flavonoid serta mengetahui kadar fenol total dan flavonoid total dalam ekstrak etanol 70% daun kasturi (*Mangifera casturi* Kosterm). Ekstraksi daun kasturi (*Mangifera casturi* Kosterm) menggunakan metode sokletasi dengan pelarut etanol 70%. Kadar fenol pada pengujian ini menggunakan reagen *folin-ciocalteau* dengan standar baku asam galat. Kadar flavonoid pada pengujian ini menggunakan reagen alumunium klorida dengan standar baku kuersetin. Hasil uji skrining fitokimia menunjukkan bahwa daun kasturi (*Mangifera casturi* Kosterm) positif mengandung senyawa fenol dan flavonoid. Hasil kadar fenol yang didapat yaitu sebesar 95,7689 mgQE/gram dan kadar flavonoid sebesar 109,0228 mgGAE/gram. Berdasarkan hasil tersebut dapat disimpulkan bahwa kadar flavonoid total dalam ekstrak etanol 70% daun kasturi (*Mangifera casturi* Kosterm) hasil sokletasi lebih tinggi dari pada kadar fenol total.

Kata Kunci: Kasturi (*Mangifera casturi* Kosterm), Fenol, Flavonoid, Sokletasi, Etanol 70%

ABSTRACT

DETERMINATION OF TOTAL FENOL AND FLAVONOID CAPACITY OF 70% ETANOL EXTRACT OF KASTURI (Mangifera casturi Kosterm) LEAVES RESULTING FROM SOCLETATION (By: Evi Rasuanti Aprillia; Supervisor: Norhayati and Revita Saputri; 2024; 112 Pages)

Kasturi (Mangifera casturi Kosterm) is a type of mango plant that is typical and native to South Kalimantan. The general public utilizes the kasturi plant (Mangifera casturi Kosterm) by consuming its fruit and leaves as traditional medicine which is believed to be an antioxidant because it contains phenol and flavonoid compounds. This study aims to determine the secondary metabolite compounds of phenol and flavonoid and determine the total phenol and total flavonoid levels in 70% ethanol extract of kasturi leaves (Mangifera casturi Kosterm). Extraction of kasturi leaves (Mangifera casturi Kosterm) using the socletation method with 70% ethanol solvent. The phenol content in this test uses folin-ciocalteau reagent with gallic acid as the standard. Flavonoid levels in this test use aluminum chloride reagent with quercetin standard. The results of the phytochemical screening test showed that kasturi leaves (Mangifera casturi Kosterm) positively contained phenol and flavonoid compounds. The results of phenol content obtained were 95.7689 mgQE/gram and flavonoid content of 109.0228 mgGAE/gram. Based on these results, it can be concluded that the total flavonoid content in 70% ethanol extract of kasturi leaves (Mangifera casturi Kosterm) from sokletation is higher than the total phenol content.

Keywords: *Kasturi (Mangifera casturi Kosterm), Phenols, Flavonoids, Soxhletation, 70% Ethanol.*