**KARAKTERISASI SIMPLISIA DAN SKRINING FITOKIMIA SERTA UJI EFEK ANTIINFLAMASI EKSTRAK ETANOL DAUN SENGGANI (*Melastoma malabathricum* L*.*)PADA**

**TIKUS PUTIH JANTAN *(Rattus norvegicus*)**

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**ABSTRAK**

Daun senggani *(Melastoma malabathricum* L*.*) merupakan tumbuhan yang termasuk family Melastomataceae yang memiliki kandungan kimia seperti alkaloid, flavanoid, saponin, steroid/triterpenoid, tannin dan glikosida. Kandungan senyawa flavonoid pada tumbuhan ini diduga membantu mempercepat penyembuhan radang/inflamasi. Tujuan dari penelitian ini adalah untuk menguji efek antiinflamasi dari ekstrak etanol daun senggani (*Melastoma malabathricum* L.) pada tikus putih jantan yang diinduksi karagenan.

Penelitian ini merupakan penelitian eksperimental. Tahapan penelitian ini meliputi pembuatan ekstrak etanol daun senggani (*Melastoma malabathricum* L.) menggunakan metode maserasi, skrining fitokimia, karakterisasi dan menguji ekstrak etanol daun senggani terhadap tikus putih jantan *(Rattus norvegicus)* sebanyak 25 ekor yang dibagi kedalam 5 kelompok secara random. Kelompok 1 sebagai kontrol negatif, kelompok 2 sebagai kontrol positif (pembanding), kelompok 3 diberi ekstrak etanol daun senggani dosis 100 mg/kgBB, kelompok ke 4 diberi ekstrak etanol daun senggani dosis 200 mg/kgBB, kelompok 5 diberi ekstrak etanol daun senggani dosis 300 mg/kgBB. Pengamatan dilakukan dengan pletismometer dan diukur setiap 1 jam selama 6 jam dan dihitung persentase pengurangan radang. Kemudian dilakukan analisis statistic dengan uji ANOVA.

Hasil penelitian yang dilakukan menunjukan bahwa ekstrak etanol daun senggani mengandung senyawa metabolit sekunder golongan alkaloid, flavonoid, saponin, tannin, steroid/triterpenoid dan glikosida yang memiliki aktivitas antiinflamasi. Hasil Karakterisasi simplisia daun senggani menunjukkan hasil yang memenuhi syarat standar mutu yaitu kadar air 8%, kadar sari larut air 40%, kadar sari larut etanol 7,6%, kadar abu total 7%, dan kadar abu tidak larut asam 0,6%. Dari hasil penelitian uji antiinflamasi menunjukkan bahwa ekstrak etanol daun senggani pada dosis 300mg/BB memiliki efek antiinflamasi paling kuat dalam penurunan radang yaitu sebesar 10,2% dan memiliki persentase inhibisi radang paling tinggi yaitu sebesar 490,49%. Dari hasil penelitian dapat disimpulkan bahwa ekstrak etanol daun senggani dapat menurunkan radang pada tikus putih jantan yang diinduksi karagenan.

**Kata Kunci :** *ekstrak etanol daun senggani, karagenan, antiinflamasi, Tikus Putih jantan, Na.Diklofenak*

**SIMPLICIA CHARACTERIZATION AND PHYTOCHEMICAL SCREENING AND ANTI-INFLAMMATORY EFFECT OF SENGGANI LEAF ETHANOL EXTRACT (*Melastoma malabathricum* L.) IN MALE WHITE RATS**

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**Abstract**

Senggani leaf *(Melastoma malabathricum* L*.*) is a plant that belongs to the family Melastomataceae which has chemical content such as alkaloids, flavanoids, saponins, steroids / triterpenoids, tannins and glycosides. The content of flavonoid compounds in this plant is considered to help accelerate the healing of inflammation. The purpose of this study was to test the anti-inflammatory effect of senggani leaf ethanol extract (*Melastoma malabathricum* L.) in karagenan-induced male white rats.

This research is experimental research. The stage of research includes making ethanol extract senggani leaves (*Melastoma malabathricum* L.) using maceration method, phytochemical screening, characterization and testing senggani leaf ethanol extract against male white rats *(Rattus norvegicus)* as many as 25 heads divided into 5 groups randomly. Group 1 as a negative control, group 2 as a positive control (comparison), group 3 was given ethanol extract of senggani leaves dose 100 mg/kg body weight, 4th group was given senggani leaf ethanol extract dose 200 mg/kg body weight, group 5 was given senggani leaf ethanol extract dose 300 mg/kg body weight. Observations were made with a pletismometer and measured every 1 hour for 6 hours and calculated the percentage of inflammation reduction. Then statistic analysis conducted with ANOVA test.

The results of the study showed that senggani leaf ethanol extract contains secondary metabolite compounds of alkaloid group, flavonoids, saponins, tannins, steroids /triterpenoids and glycosides that have anti-inflammatory activity. Results The simplicia characterization of senggani leaves showed results that met the quality standard requirements, namely 8% water content, 40% water soluble extract content, 7.6% ethanol soluble extract, 7% total ash content, and 0.6% acid insoluble ash content. From the results of anti-inflammatory test research showed that ethanol extract of senggani leaves at a dose of 300mg / BB has the strongest anti-inflammatory effect in the decrease of inflammation is 10.2% and has the highest percentage of inflammatory inhibition is 490.49%. From the results of the study, it can be concluded that senggani leaf ethanol extract can reduce inflammation in karagenan-induced male white rats.

**Keywords :** *ethanol extract senggani leaves, karagenan, anti-inflammatory, Male White Rat, Na.Diclofenac*