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UJI AKTIVITAS ANTIINFLAMASI EKSTRAK RESIN JERNANG *(Daemonorop draco)*TERHADAP MENCIT PUTIH JANTAN *(Mus musculus)*

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ABSTRAK

Peradangan merupakan respon biologis tubuh akibat kerusakan jaringan atau infeksi, yang ditandai dengan kemerahan, nyeri, dan pembengkakan. Resin jernang (*Daemonorops draco*) secara tradisional digunakan sebagai obat herbal, namun bukti ilmiah mengenai efek antiinflamasinya masih terbatas. Penelitian ini bertujuan untuk mengetahui aktivitas antiinflamasi ekstrak resin jernang serta dosis yang paling efektif pada mencit putih jantan (*Mus musculus*) yang diinduksi karagenan 1%. Penelitian menggunakan rancangan acak lengkap dengan lima kelompok: kontrol negatif (Na-CMC 1%), kontrol positif (natrium diklofenak 50 mg/kgBB), dan tiga kelompok perlakuan ekstrak resin jernang (100, 200, dan 400 mg/kgBB). Parameter yang diamati meliputi diameter radang, persentase radang, dan persentase inhibisi selama 6 jam. Hasil menunjukkan bahwa ekstrak resin jernang mampu menurunkan diameter dan persentase radang serta meningkatkan inhibisi inflamasi secara signifikan pada dosis 200 mg/kgBB dan 400 mg/kgBB. Dosis 400 mg/kgBB memberikan efek terbaik yang sebanding dengan kontrol positif. Dengan demikian, ekstrak resin jernang berpotensi dikembangkan sebagai kandidat fitofarmaka dengan aktivitas antiinflamasi.

Kata kunci: Resin jernang, Daemonorops draco, antiinflamasi, karagenan, mencit putih.

ANTI-INFLAMMATORY ACTIVITY TEST OF DRAGON'S BLOOD RESIN EXTRACT (Daemonorops draco) ON MALE WHITE MICE (Mus musculus)

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ABSTRACT

Inflammation is a biological response of the body to tissue damage or infection, characterized by redness, pain, and swelling. Dragon's blood resin (Daemonorops draco) has traditionally been used as herbal medicine, but scientific evidence regarding its anti-inflammatory effect remains limited. This study aimed to evaluate the anti-inflammatory activity of dragon's blood resin extract and to determine the most effective dose in male white mice (Mus musculus) induced with 1% carrageenan. The experiment employed a completely randomized design with five groups: negative control (Na-CMC 1%), positive control (diclofenac sodium 50 mg/kgBW), and three treatment groups of dragon's blood resin extract (100, 200, and 400 mg/kgBW). Parameters observed included paw edema diameter, percentage of inflammation, and percentage inhibition within 6 hours. The results showed that the extract significantly reduced paw edema diameter and percentage of inflammation, and increased inhibition percentage at doses of 200 mg/kgBW and 400 mg/kgBW. The dose of 400 mg/kgBW provided the best anti-inflammatory effect, comparable to the positive control. Therefore, dragon's blood resin extract has potential to be developed as a phytopharmaceutical candidate with anti-inflammatory activity.

Keywords: *Dragon's blood resin, Daemonorops draco, anti-inflammatory, carrageenan.*