

ABSTRAK**Ekstrak Etanol Daun Dadap Serep (*Erythrina Subumrans* (Hassk.) Merr) Sebagai Antiinflamasi Dengan Metode *In vitro* dan *In vivo*.**

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Dadap serep (*Erythrina subumrans* (hassk Merr) secara empiris telah digunakan sebagai obat demam dan bengkak. Penelitian ini bertujuan untuk mengetahui ekstrak etanol daun dadap serep (*Erythrina subumrans*) memiliki aktivitas antiinflamasi pada tikus yang diinduksi putih telur dan dosis efektifnya dan mengetahui ekstrak etanol daun dadap serep (*Erythrina subumrans*) memiliki aktivitas antiinflamasi terhadap stabilitas membran sel darah merah (HRBC) dan konsentrasi efektifnya. Metode penelitian menggunakan 2 metode *in vitro* HRBC (*Human Red Blood Cell*). *In vivo* menggunakan 25 ekor tikus putih jantan galur wistar dibagi menjadi 5 kelompok yaitu kelompok positif diberikan Na-CMC 0,5%, kelompok pembanding Natrium diklofenak 4,5mg/KgBB dan kelompok uji ekstrak etanol daun dadap serep diberikan dosis 100mg/KgBB, 200mg/KgBB, 400mg/KgBB, semua kelompok diberikan induksi putih telur 1%. Hasil menunjukkan pada metode *in vitro* HRBC stabilitas membran sel darah merah ekstrak etanol daun dadap serep sebesar 75,61 dan pada metode *in vivo* ekstrak etanol daun dadap serep pada dosis 100mg/KgBB memiliki aktivitas antiinflamasi dengan ditandai penurunan pada volume kaki tikus. Disimpulkan bahwa pada metode *in vitro* HRBC nilai IC₅₀ sebesar 75,61 pada konsentrasi 70-80µL dan pada metode *In vivo* dosis efektif sebagai antiinflamasi adalah 100mg/KgBB.

Kata Kunci : Antiinflamasi, Dadap serep (*Erythrina subumrans* (hassk Merr), HRBC, Natrium diklofenak, Putih Telur.

ABSTRACT**Ethanol Extract of Dadap Serep Leaves (*Erythrina Subumrans* (Hassk.) Merr) As
Antiinflammation With *In vitro* and *In vivo* Methods.**

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Dadap serep (*Erythrina subumrans* (Hassk Merr) has been empirically used as a medicine for fever and swelling. This study aimed to determine the ethanol extract of the leaves of dadap serep (*Erythrina subumrans*) has anti-inflammatory activity in rats induced by egg white and its effective dose and to determine the ethanolic extract of the leaves. Dadap serep (*Erythrina subumrans*) has anti-inflammatory activity on the stability of the red blood cell membrane (HRBC) and its effective concentration. The research method used 2 *in vitro* HRBC (*Human Red Blood Cell*) methods. *In vivo*, 25 male white rats were divided into 5 Wistar strains. the positive group was given 0.5% Na-CMC, the comparison group was 4.5mg/kg BW of diclofenac sodium, and the test group was given the ethanol extract of dadap serep leaves at a dose of 100mg/kg BW, 200mg/kg BW, 400mg/kg BW, all groups were given egg white induction. 1% The results showed *in vitro* HRBC method stability of red blood cell membrane ethanol extract of dadap serep she leaves 75.61 and *in vivo*, the ethanol extract of dadap serep leaves at a dose of 100mg/kg BW has anti-inflammatory activity with a marked decrease in the volume of the rat's feet. It was concluded that in the *in vitro* HRBC method the IC₅₀ was 75.61 at a concentration of 70-80µL and in the *In vivo* the effective dose as anti-inflammatory was 100mg/kg BW.

Keywords: Anti-inflammatory, Dadap serep (*Erythrina subumrans* (Hassk) Merr), Diclofenac sodium, HRBC, Egg white.