

**UJI AKTIVITAS EKSTRAK ETANOL DAUN TAPAK LIMAN
(*Elephantopus scaber* L.) TERHADAP PERSENTASE SEL BASOFIL
DAN KADAR IgE MENCIT PUTIH JANTAN ALERGI**

SKRIPSI SARJANA FARMASI



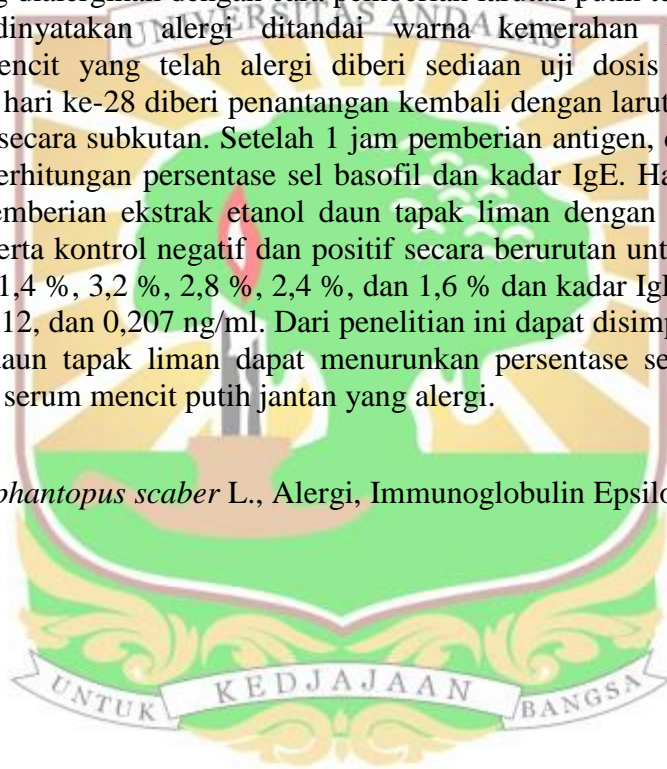
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ABSTRAK

Telah dilakukan penelitian uji aktivitas ekstrak etanol daun tapak liman terhadap persentase sel basofil dan kadar Immunoglobulin Epsilon (IgE) pada mencit putih jantan alergi. Hewan percobaan terdiri dari 5 kelompok yaitu 1 kelompok kontrol negatif, 1 kelompok kontrol positif dan 3 kelompok dosis sediaan uji. Sediaan uji yang digunakan adalah ekstrak daun tapak liman yang diperoleh dengan maserasi. Hewan percobaan yang digunakan adalah mencit putih jantan yang dialergikan dengan cara pemberian larutan putih telur 10 % b/v. Mencit yang dinyatakan alergi ditandai warna kemerahan pada tempat penyuntikan. Mencit yang telah alergi diberi sediaan uji dosis 10, 30, 100 mg/KgBB. Pada hari ke-28 diberi penantangan kembali dengan larutan putih telur 10% b/v 0,1 ml secara subkutan. Setelah 1 jam pemberian antigen, darah diambil dan dilakukan perhitungan persentase sel basofil dan kadar IgE. Hasil penelitian menunjukkan pemberian ekstrak etanol daun tapak liman dengan dosis 10, 30, 100 mg/KgBB serta kontrol negatif dan positif secara berurutan untuk persentase sel basofil yaitu 1,4 %, 3,2 %, 2,8 %, 2,4 %, dan 1,6 % dan kadar IgE yaitu 0,152, 0,793, 0,574, 0,412, dan 0,207 ng/ml. Dari penelitian ini dapat disimpulkan bahwa ekstrak etanol daun tapak liman dapat menurunkan persentase sel basofil dan kadar IgE dalam serum mencit putih jantan yang alergi.

Kata kunci : *Elephantopus scaber* L., Alergi, Immunoglobulin Epsilon, Basofil, In vivo, Putih telur



THE ACTIVITY TESTING OF ETHANOL EXTRACT FROM TAPAK LIMAN (*Elephantopus scaber* .L) LEAVES FOR THE PERCENTAGE OF BASOPHIL CELLS AND IgE CONCENTRATIONS OF MALE ALLERGIC WHITE MICE

ABSTRACT

The research on activity of ethanol extract from tapak liman leaves for the percentage of basophil cells and the concentration of Epsilon (IgE) in male allergic white mice was carried out. The experimental animals was consisted of 5 groups i.e. 1 negative control group, 1 positive control group and 3 group of preparation test dosages. The test preparation was using ethanol extract from tapak liman leaves obtained by macerations. The experimental animals were using male white mice that allergeting by giving 10 % b/v of egg white solutions. The mice which declared allergic were marked by reddish coloring at the injection site. Those mice that has been allergic were given a test dosage of 10, 30, 100 mg/KgBB. On the 28th day, a challenge was given again with a 10 % b/v 0,1 ml egg white solution subcutaneously. After 1 hour of antigen administration, the blood was take to count the percentage of basophil cells and IgE concentrations. The results of this test showed the administration of ethanol extract from tapak liman leaves at doses of 10, 30, 100 mg/KgBB including the negative and positive control sequentially, for the percentage of basophil cells i.e 1,4 %, 3,2 %, 2,8 %, 2,4 %, and 1,6 % and IgE concentration numbers i.e 0,152, 0,793, 0,574, 0,412, and 0,207 ng/ml. From this research it can be concluded that the ethanol extract of tapak liman leaves can reduced the percentage of basophil cells and IgE concentration of male allergic white mice serum.

Keywords : *Elephantopus scaber* L., Allergies, Epsilon Immunoglobulin, Basophil, In vivo, Egg white.

