

**UJI EFEK DIURETIK EKSTRAK ETANOL HERBA RUKU-RUKU
(*Ocimum tenuiflorum* L.) TERHADAP TIKUS WISTAR JANTAN**

ABSTRAK

DHIKA ROYVITA SARI

Email: *Dhikaroyvitas@gmail.com*

Telah dilakukan uji efek diuretik ekstrak etanol herba ruku-ruku (*Ocimum tenuiflorum* L.) terhadap tikus wistar jantan. Penelitian ini dilakukan terhadap 25 ekor tikus wistar jantan yang dibagi menjadi 5 kelompok. Kelompok kontrol diberikan CMC Na 0,5 % 10 mg/kg BB tikus. Kelompok pembanding diberikan suspensi furosemid 0,72 mg/kg BB tikus. Kelompok uji 1 diberi suspensi ekstrak etanol herba ruku-ruku dosis 125 mg/kg BB tikus, uji 2 diberi suspensi ekstrak etanol herba ruku-ruku dosis 250 mg/kg BB tikus, uji 3 diberi suspensi ekstrak etanol herba ruku-ruku dosis 500 mg/kg BB tikus. Sebelum dilakukan pengujian, seluruh kelompok tikus diberi air hangat 10 ml/kg BB tikus. Pemberian sediaan pada setiap tikus diberikan secara oral, kemudian dimasukkan kedalam kandang metabolisme. Pengujian dilakukan selama 4 jam. Parameter pengukuran meliputi pengukuran volume urin kumulatif, presentase potensi diuretik, pengukuran pH urin dan dianalisis menggunakan statistika ANOVA. Hasil penelitian menunjukkan bahwa ekstrak etanol herba ruku-ruku memberikan aktivitas diuretik. Dosis paling efektif sebagai diuretik ditunjukkan pada ekstrak etanol herba ruku-ruku dosis 250 mg/kg BB tikus, dengan nilai ($P= 0,000; P < 0,05$) dibandingkan kelompok kontrol, dengan potensi diuretik sebesar 106,67% , pengukuran pH urin tikus bersifat basa.

Katakunci: Ekstrak, herba ruku-ruku, *Ocimum tenuiflorum* L., diuretik

**THE DIURETIC EFFECT OF SACRED BASIL (*Ocimum tenuiflorum* L.)
HERB ETHANOL EXTRACT HAS DETERMINE IN MALE WISTAR
RATS**

ABSTRACT

DHIKA ROYVITA SARI

Email: *Dhikaroyvitas@gmail.com*

There has been conducted a test of the diuretic effect of sacred basil (*Ocimum tenuiflorum* L.) herb ethanol extract has determine in male wistar rats. This research was being conducted to 25 male wistar rats divided into five groups. The control group was made to consume the CMC-Na suspension 0,5% 10 mg/kg Body weight (BW) rats. While the comparison group consumed suspension of furosemid 0,72 mg/kg BW rats. The first study group consumed the suspension of sacred basil herb ethanol extract with 125 mg/kg BW rats dose, the second study group consumed the suspension of sacred basil herb ethanol extract with 250 mg/kg BW rats dose, and the third study group consumed the suspension of sacred basil herb ethanol extract with 500 mg/kg BW rats dose. Before the study, the rats ware made to consume the warm water 10 mg/kg BW rats. Then they were kept in metabolism cage. The study was conducted over 4 hours. The defined parameters consist of cumulative urine volume, diuretic potential percantage, urine pH and analyzed using ANOVA statistics. The results of this research shows that sacred basil herb ethanol extract applied to the third groups has the diuretic effect. The most effective dose of sacred basil herb ethaol extract is 250 mg/kg BW rats. The value ($P = 0,000; P < 0,05$) compare to control group, with 106,67% diuretic potential. The urine pH was alkaline.

Keywords: Extract, sacred basil herb, *Ocimum tenuiflorum* L., diuretic