

ABSTRAK

ANGGUN WIDYA SASTIKA, 2023, UJI AKTIVITAS *LACTAGOGUM* EKSTRAK ETANOL BIJI KEDELAI (*Glycine max* L.) PADA TIKUS PUTIH (*Rattus novergicus*), SKRIPSI, PROGRAM STUDI S1 FARMASI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA. Dibimbing oleh Dr. apt. Wiwin Herdwiani, M.Sc. dan Apt. Jamilah Sarimanah, M.Si.

Kedelai (*Glycine max* L.) merupakan tanaman yang dianggap memiliki aktivitas *lactagogum* sehingga dapat meningkatkan produksi ASI. Penelitian ini bertujuan untuk mengetahui aktivitas *lactagogum* dan dosis efektif ekstrak etanol biji kedelai berdasarkan parameter berat badan induk tikus, berat badan anakan dan histologi kelenjar *mammae* tikus.

Biji kedelai diekstraksi dengan metode maserasi menggunakan etanol 70%. Penelitian menggunakan 5 induk tikus laktasi tiap kelompok, yaitu kontrol normal, kontrol negatif CMC Na 0,5%, kontrol positif Lancar ASI[®] dan pemberian ekstrak etanol biji kedelai dosis 325 mg/kgBB, 650 mg/kgBB, 1300 mg/kgBB. Tikus diberi perlakuan selama 14 hari dan dilakukan penimbangan berat badan induk dan anakan kemudian induk dibedah untuk diambil kelenjar *mammae* dan dibuat preparat histologi. Data yang diperoleh dianalisis menggunakan *Shapiro-Wilk*, *One-Way ANOVA* dan *Tukey*.

Hasil penelitian menunjukkan bahwa pemberian ekstrak biji kedelai dengan 3 variasi dosis memiliki aktivitas *lactagogum*. Ekstrak etanol biji kedelai dosis 650 mg/kgBB merupakan dosis efektif berdasarkan parameter berat badan induk, berat badan anakan dan histologi kelenjar *mammae* tikus.

Kata kunci : *lactagogum*, kedelai, berat badan, kelenjar *mammae*.

ABSTRACT

ANGGUN WIDYA SASTIKA, 2023, GALACTAGOGUE ACTIVITY TEST OF SOYBEAN (*Glycine max* L.) ETHANOL EXTRACT IN WHITE RATS (*Rattus norvegicus*), THESI, BACHELOR OF PHARMACY, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA. Supervised by Dr. apt. Wiwin Herdwiani, M.Sc. and Apt. Jamilah Sarimanah, M.Si.

Soybean (*Glycine max* L.) is a plant that is considered to have galactagogue activity so that it can increase milk production. This study aims to determine the activity of galactagogue and the effective dose of ethanol extract from soybean seeds based on the parameters of the body weight of the mother rats, the body weight of the puppies, and the histology of the rats' mammary glands.

Soybean seeds were extracted by maceration method using 70% ethanol. The study used 5 lactating rats for each group, namely normal control, negative control of 0.5% CMC Na, positive control of Current ASI[®], and administration of soybean seed ethanol extract at doses of 325 mg/kg, 650 mg/kg, 1300 mg/kg. The rats were treated for 14 days and the body weight of the mothers and puppies was measured, then the mothers were dissected to take the mammary glands, and histological preparations were made. The data obtained were analyzed using Shapiro-Wilk, One-Way ANOVA, and Tukey.

The results showed that the administration of soybean seed extract with 3 variations of doses had galactagogue activity. Soybean seed ethanol extract at a dose of 650 mg/kgBW is an effective dose based on the parameters of sow body weight, tiller body weight, and histology of the rat's mammary glands.

Keywords: galactagogue, soybean, body weight, mammary glands.