

INTISARI

KUSUMAWATI, AD., 2015, PENGARUH PEMBERIAN KOMBINASI EKSTRAK ETANOL DAUN BAWANG KUCAI (*Allium tuberosum* Rottl ex. Spreng) DAN KELOPAK BUNGA ROSELLA (*Hibiscus sabdariffa* L.) TERHADAP KADAR KOLESTEROL TOTAL PADA TIKUS JANTAN GALUR WISTAR, SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Tanaman yang beraktiftas terhadap penurunan kolesterol total antara lain daun bawang kucai dan kelopak bunga rosella. Tujuan penelitian adalah mengetahui keefektifan, dosis efektif, dan sifat interaksi farmakodinamika kombinasi ekstrak etanol daun bawang kucai dan kelopak bunga rosella dibandingkan dosis tunggal terhadap penurunan kolesterol total tikus jantan galur wistar.

Metode ekstraksi simplisia yang digunakan maserasi dengan etanol 70%. Sebanyak 35 tikus dibagi 7 kelompok. Kelompok 1 sehat. Kelompok 2 sakit, kelompok 3 dosis tunggal ekstrak etanol kelopak bunga rosella, kelompok 4 dosis tunggal ekstrak daun bawang kucai, kelompok 5 kombinasi (1/2:1/2), kelompok 6 ekstrak etanol kelopak bunga rosella dan daun bawang kucai (1/4:3/4), kelompok 7 ekstrak etanol kelopak bunga rosella (3/4:1/4) yang sebelumnya diinduksi tinggi lemak selama 14 hari. Data penurunan kolesterol total dianalisis menggunakan *One-way Anova* dilanjutkan uji *Post-Hoc*.

Hasil penelitian menunjukkan kombinasi ekstrak etanol daun bawang kucai dan kelopak bunga rosella lebih efektif menurunkan kolesterol total dibanding dosis tunggal dengan dosis kombinasi (1/2:1/2) dan menghasilkan sifat interaksi farmakodinamika sinergis terhadap penurunan kolesterol total tikus jantan galur wistar.

Kata kunci : daun bawang kucai, kelopak bunga rosella, kolesterol total.

ABSTRACT

KUSUMAWATI, AD., 2015, THE EFFECT OF *BAWANG KUCAI* (*Allium tuberosum* Rottl ex. Spreng) LEAVES AND *ROSELLA* (*Hibiscus sabdariffa* L.) FLOWER CALYX COMBINED ETHANOL EXTRACTS ADMINISTRATION ON TOTAL CHOLESTEROL LEVEL IN WISTAR STRAIN MALE RAT, THESIS, PHARMACY FACULTY, SETIA BUDI UNIVERSITY, SURAKARTA.

The plants having total cholesterol lowering activity among others are *bawang kucai* leaves and *rosella* flower calyx. The objective of research was to find out effectiveness, effective doses, and pharmacodynamic interaction property of combined *bawang kucai* leaves and *rosella* flower calyx ethanol extracts compared with single dose on total cholesterol lowering in wistar strain male rat.

The method of extracting simplicia used was maceration with ethanol 70%. About 35 rats were divided into 7 groups. Group 1 was healthy, group 2 sick, group 3(*rosella* flower calyx extract of 100 mg/200 BW), group 4(*bawang kucai* leaves extract of 22 mg/200g Bw), group 5 *bawang kucai* leaves and *rosella* flower calyx extracts(1/2:1/2), group 6 *rosella* flower calyx and *bawang kucai* leaves extracts(1/4:3/4), group 7 *rosella* flower calyx and *bawang kucai* leaves extracts(3/4:1/4) induced with high fat first for 14 days. The data total cholesterol lowering was analyzed using One-way Anova, followed with Post-Hoc test.

The result of study showed the combination of *bawang kucai* leaves and *rosella* flower calyx ethanol extracts lowered the total cholesterol level more effectively compared with single dose with combined dose (11mg/200gBW and 50mg/200gBW) and provided synergic pharmacodynamic interaction properties on lowering the total cholesterol level of wistar strain male rat.

Keywords: *bawang kucai* leaves, *rosella* flower calyx, total cholesterol