

ABSTRAK

NURROHMAH, AR., 2014, PENGARUH PEMBERIAN EKSTRAK ETANOL BUAH KRANGEAN (*Litsea cubeba* (Lour.) Pers.) TERHADAP PENURUNAN KADAR KOLESTEROL TOTAL SERUM DARAH TIKUS PUTIH JANTAN, SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Hiperkolesterolemia ditandai dengan peningkatan kadar kolesterol LDL dan kolesterol total. Hiperkolesterolemia dapat berkembang menjadi aterosklerosis dan penyakit jantung koroner. Buah krangan (*Litsea cubeba* (Lour.) Pers.) mengandung alkaloid, flavonoid, saponin, dan tanin. Flavonoid dan saponin mampu menurunkan kadar kolesterol darah, serta menghalangi reaksi oksidasi kolesterol dalam tubuh. Penelitian ini bertujuan untuk mengetahui pengaruh pemberian dan dosis efektif ekstrak buah krangan dalam menurunkan kadar kolesterol total serum darah pada tikus putih jantan.

Penelitian ini menggunakan metode remaserasi dengan pelarut etanol 96%. Hewan uji menggunakan 25 ekor tikus putih jantan yang dibagi dalam 5 kelompok, yaitu kelompok normal (tanpa perlakuan), kelompok hiperkolesterol (CMC 1%), kelompok dosis uji ekstrak etanol buah krangan dengan variasi dosis 100 mg/kg BB, 200 mg/kg BB, dan 400 mg/kg BB. Kecuali kelompok normal, hewan uji dibuat hiperkolesterol dengan diberi diet tinggi lemak selama 14 hari dan diukur kadar kolesterol total serum darah pada hari ke-7, hari ke-21, hari ke-28 dengan metode CHOD-PAP.

Hasil penelitian menunjukkan bahwa ekstrak etanol buah krangan dapat menurunkan kadar kolesterol total serum darah tikus putih jantan. Dosis paling efektif dalam menurunkan kadar kolesterol total serum darah tikus putih jantan adalah 400 mg/kg BB..

Kata kunci: Buah krangan, *Litsea cubeba* (Lour.) Pers., hiperkolesterolemia, diet tinggi lemak.

ABSTRACT

NURROHMAH, AR., 2014, THE INFLUENCE OF KRANGEAN (*Litsea cubeba* (Lour) Pers.) FRUIT ETHANOL EXTRACT ON REDUCING TOTAL CHOLESTEROL OF BLOOD SERUM IN MALE WHITE MOUSE, THESIS. FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA.

Hypercholesterolemia is characterized by the increase level of LDL and total cholesterol. Hypercholesterolemia can develop into atherosclerosis and coronary heart disease. Kragean fruit (*Litsea cubeba* (Lour.) Pers.) contains alkaloid, flavonoid, saponnin and tannin. Flavonoids and saponnins can reduce blood cholesterol and prevents the oxidation of cholesterol in the body. This study was aimed to determine the effect and effective dose of kragean fruit extract on reducing total cholesterol of blood serum in male white mouse.

This study used remaceration method with etanol. Animals test used 25 male white mice that were divided into 5 groups, i.e. normal group (without treatment), hypercholesterol group (CMC 1%), kragean fruit ethanol extract with dose 100 mg/kg BW, 200 mg/kg BW, and 400 mg/kg BW. All of these animals test except normal group were made hypercholesterol with high fat diet for 14 days. Total cholesterol levels of these animals test were measured on day 7, day 21, day 28 by CHOD-PAP method.

The result of this study showed that kragean fruit extract could reduced total cholesterol of blood serum in male white mouse. The most effective dose on reducing total cholesterol of blood serum in male white mouse was 400 mg/kg BW.

Keywords : Kragean fruit, *Litsea cubeba* (Lour.) Pers., hypercholesterolemia, high fat diet.