

INTISARI

KUSUMANINGRUM, PR., 2018. UJI TOKSISITAS SUBKRONIK EKTRAK ETANOL DAUN MATOA (*Pometia pinnata* J.R. & G. Forst) DENGAN PARAMETER KADAR KOLESTEROL TOTAL, TRIGLISERIDA, LDL DAN HDL PADA TIKUS GALUR WISTAR, SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Daun matoa (*Pometia pinnata* J.R. & G. Forst) pada uji toksisitas akut menunjukkan nilai LD₅₀ >5000 mg/kgBB praktis tidak toksik. Ekstrak etanolik daun matoa memiliki aktivitas sebagai antihipertensi. Tujuan penelitian ini mengetahui toksisitas subkronis pemberian ekstrak etanol daun matoa selama 90 hari dosis 150, 500, 1000 mg/kgBB dengan parameter kadar kolesterol total, trigliserida, HDL, dan LDL.

Ekstrak daun matoa diperoleh dari proses maserasi dengan pelarut etanol 70%. Penelitian ini menggunakan 50 tikus jantan dan 50 tikus betina yang terbagi atas 5 kelompok. Kelompok pertama diberi CMC 0,5%, 4 kelompok perlakuan diberi sediaan ekstrak daun matoa dengan dosis 150, 500, 1000 mg/kgBB dan satelit diberi dosis 1000 mg/kgBB. Penelitian ini dilakukan selama 90 hari dan ditambah 28 hari pada kelompok satelit. Pemeriksaan kadar kolesterol total, trigliserida, HDL dan LDL dilakukan pada T₀, T₉₀, dan T₁₁₈.

Hasil uji toksisitas subkronik menunjukkan bahwa ekstrak etanol daun matoa dosis 150, 500, dan 1000 mg/kgBB selama 90 hari terhadap pengamatan kadar kolesterol total, trigliserida tikus jantan dan betina tidak menimbulkan efek toksik, pengamatan HDL dosis 150 mg/kgBB efektif tidak menimbulkan efek toksik tikus jantan dan betina. Dosis 150, 500, mg/kgBB tidak menimbulkan efek toksik kadar LDL tikus jantan dan betina.

Kata kunci: *Pometia pinnata*, toksisitas subkronik, kolesterol total, trigliserida, HDL, LDL

ABSTRACT

KUSUMANINGRUM, PR., 2018. SUBCHRONIC TOXICITY TEST OF THE ETHANOLIC EXTRACT OF MATOA LEAF (*Pometia pinnata* J.R. & G. Forst) WITH PARAMETERS TOTAL CHOLESTEROL LEVELS, TRIGLYSERIDES, HDL AND LDL ON WISTAR RATS, THESIS, FACULTY OF PHARMACY, UNIVERSITY OF SETIA BUDI, SURAKARTA.

Matoa leaf (*Pometia pinnata* J.R. & G. Forst) acute toxicity test showed LD50 value >5000 mg/kgBB practically not toxic. The ethanolic extract of matoa leaf has activity as antihypertensive. The purpose of this study was to know the subchronic toxicity of ethanol extract of matoa leaf for 90 days dose 150, 500, 1000 mg/kgBW with parameter of total cholesterol, triglyceride, HDL, and LDL.

The extract matoa leaf was obtained from maceration process with 70% ethanol. This study used 50 male rats and 50 female rats, divided into 5 groups. The first group of negative control was given 0,5% CMC, treatment group of two to four were prepared with extract matoa leaf doses of 250, 500, 1000 mg/kgBW, and satellite group was given 1000 mg/kgBW. The study was conducted over 90 days and added 28 days in the satellite group. The examination of total cholesterol, triglyceride, HDL and LDL levels was performed on T0, T90, and T118.

Subchronic toxicity test results showed that ethanol extract of leaf matoa dose 150, 500, and 1000 mg/kgBB for 90 days against observation of total cholesterol, triglyceride of male and female rats did not give toxic effect, whereas HDL observations have the toxic effect of lowering HDL levels of male and female rats, HDL observation of 150 mg / kgBW effective dose did not produce toxic effects of male and female rats. Doses 150, 500, mg / kgBW did not cause toxic effects of LDL levels of male and female rats.

Keywords: *Pometia pinnata*, subchronic toxicity, total cholesterol, triglyserides, HDL, LDL