

## INTISARI

### **Wafa A.S., 2019, PENGARUH EKSTRAK DAUN MANGGA KASTURI (*Mangifera casturi* Koesterm) TERHADAP KADAR TRIGLISERIDA PADA TIKUS PUTIH JANTAN HIPERLIPIDEMIA, SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.**

Daun mangga kasturi merupakan salah satu tanaman obat yang mengandung senyawa flavonoid, saponin dan tanin yang dapat beraktivitas sebagai penurun kadar trigliserida dalam darah. Penelitian ini bertujuan untuk mengetahui pengaruh pemberian ekstrak daun mangga kasturi terhadap kadar trigliserida tikus putih jantan galur wistar hiperlipidemia yang diinduksi dengan diet lemak tinggi dan propiltiourasil.

Penelitian dilakukan selama 21 hari menggunakan 30 tikus dibagi dalam 6 kelompok : kelompok normal, kelompok negatif (CMC 0,5%) kelompok positif (gemfibrozil 10,8 mg/200 g BB), dosis ekstrak etanol daun mangga kasturi 100 mg/kg BB, 200 mg/kg BB, 400 mg/kg BB. Semua kelompok kecuali kelompok normal diberi induksi diet tinggi lemak dan propiltiourasil selama 14 hari. Pengukuran kadar trigliserida dilakukan pada hari ke-0, ke-14 dan ke-21 menggunakan metode GPO-PAP. Hasil pengujian dianalisis statistik menggunakan *One way anova*.

Hasil menunjukkan bahwa ekstrak daun mangga kasturi dosis 100 mg/kg BB, 200 mg/kg BB, 400 mg/kg BB dapat menurunkan kadar trigliserida, hasil persentase berturut-turut yaitu 43,29%, 56,97%, 84,11%. Persentase penurunan yang paling baik ditunjukkan pada dosis 400 mg/kg BB (84,11%) karena setara dengan persentase penurunan pada gemfibrozil (92,71%). Dari ketiga variasi dosis tersebut dapat disimpulkan bahwa ekstrak daun mangga kasturi berpengaruh terhadap penurunan kadar trigliserida dan dosis yang efektif adalah 400 mg/kg BB.

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Kata kunci : ekstrak daun mangga kasturi, diet tinggi lemak, propiltiourasil, hiperlipidemia

## ABSTRACT

**Wafa A.S., THE EFFECT OF KASTURI MANGO LEAVES EXTRACT (*Mangifera casturi* Koesterm) ON TRIGLYCERIDE LEVEL OF HYPERLIPIDEMIC WHITE RATS, THESIS, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA.**

Kasturi mango leaves are one of medicinal plants that contain flavonoids, saponins and tannins which can act as a decrease of triglyceride levels in blood. The aim of this study was to determine the effect of the administration of kasturi mango leaves extract on triglyceride levels of hyperlipidemic wistar strain white rats induced by high fat diet and propylthiouracil.

The study was carried out for 21 days using 30 rats divided into 6 groups: normal group, negative group (CMC 0.5%) positive group (gemfibrozil 10.8 mg / 200 g BB), dose of mango kasturi leaf ethanol extract was 100 mg / kg BW , 200 mg / kg BW, 400 mg / kgBW. All groups except the normal group were given an induction of a high-fat diet and propylthiouracil for 14 days. Measurements of triglyceride levels were carried out on the 0th, 14th and 21st days using the GPO-PAP method. The test results were analyzed statistically using One Way Anova.

The results showed that the extract of mango kasturi leaves at a dose of 100 mg / kg body weight, 200 mg / kg body weight, 400 mg / kg body weight could reduce triglyceride levels, the percentage results were 43.29%, 56.97%, 84.11% . The best percentage reduction was shown at a dose of 400 mg / kg body weight (84.11%) because it was equivalent to the percentage decrease in gemfibrozil (92.71%). From the three dosage variations, it can be concluded that the extract of kasturi mango leaves has an effect on decreasing triglyceride levels and the effective dose is 400 mg / kg BW.

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Key words : extract of kasturi mango leaf, high-fat diet, propylthiouracil, hiperlipidemic