

**UJI ANTIKOLESTEROL MASSA CETAK DAN TABLET
CHITOSAN DENGAN DISINTEGRAN *CROSPROVIDONE* 4%
MENGUNAKAN PARAMETER KADAR TOTAL
KOLESTEROL DAN TRIGLISERIDA**

ABSTRAK

Chitosan adalah produk alam derivat dari chitin yang telah banyak diteliti di bidang kedokteran untuk penurunan kolesterol. Penelitian ini bertujuan untuk menganalisa antikolesterol dari massa cetak dan tablet chitosan dengan disintegan *crospovidone* 4% menggunakan parameter yaitu kadar total kolesterol dan trigliserida. Sebanyak 20 tikus putih jantan yang hiperkolesterolemia akibat induksi *propilthiourasil* dibagi menjadi 4 kelompok perlakuan, yaitu kelompok kontrol negatif yang diberi suspensi CMC-Na, kelompok kontrol positif diberi chitosan 36 mg/200 g BB, kelompok uji I diberi massa cetak tablet yang mengandung chitosan 36 mg/200 g BB dan kelompok uji II diberi tablet yang mengandung chitosan 36 mg/200 g BB. Hasil penelitian kadar kolesterol total dan trigliserida, menunjukkan bahwa massa cetak dan tablet chitosan efektif menurunkan kadar kolesterol total dan trigliserida. Hasil analisis statistik memperlihatkan bahwa massa cetak dan tablet chitosan memiliki perbedaan efektifitas dalam menurunkan kolesterol ($\alpha = 0,05$).

Diajeng Mardhatillah, 2012

Pembimbing

1. DR. Rika Yulia, S.Si., SpFRS., Apt.
2. Agnes Nuniek W., S.Si., M.Si., Apt.

Kata kunci : *chitosan, kolesterol total, trigliserida, tikus putih jantan.*

ANTICHOLESTEROL OF CHITOSAN COMPRESSION MASS AND TABLET WITH CROSPROVIDONE 4% DISINTEGRANT USING PARAMETERS TOTAL CHOLESTEROL AND TRIGLYCERIDES

ABSTRACT

Chitosan is a natural product derivative of chitin that has been widely studied in the field of medicine for lowering cholesterol. This study aims to analyze the effectiveness of anti-cholesterol from chitosan tablets and compression mass tablets containing crospovidone 4% with the parameters: total cholesterol and triglyceride levels. A total of 20 male white rats which had hypercholesterolemia induced propylthiourasil divided into 4 treatment groups, specifically negative control group who were given CMC - Na suspension, the positive control group were given 36 mg/200 g of chitosan, the test group I were given the compression mass tablets containing chitosan 36 mg/200 g and test group II were given tablets containing chitosan 36 mg/200 g. The results of levels of serum total cholesterol and triglycerides showed that the tablets of chitosan and the compression mass tablet of chitosan effectively lower total cholesterol and triglyceride levels. The results of statistical analysis indicated that the tablets of chitosan and the compression mass tablet of chitosan has different in effectively lower total cholesterol and triglyceride levels ($\alpha = 0,05$).

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