

# Pengaruh pemberian simplisia alphitobius sp terhadap konsentrasi kolesterol total plasma darah tikus putih rattus norvegicus l jantan galur sprague dawley = Effect of simplicia alphitobius sp intake on blood plasma total cholesterol concentration in white male rat sprague dawley rattus norvegicus l

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## Abstrak

### [<b>ABSTRAK</b><br>

Telah dilakukan penelitian untuk mengetahui pengaruh pemberian simplisia Alphitobius sp. terhadap konsentrasi kolesterol total plasma darah tikus putih (*Rattus norvegicus* L.) jantan galur Sprague-Dawley. Dua puluh empat ekor tikus dibagi dalam 6 kelompok perlakuan yang terdiri atas kelompok kontrol normal yang hanya diberi pakan standar, kelompok kontrol perlakuan yang diberi diet tinggi lemak, dan 4 kelompok perlakuan yang diberi diet tinggi lemak dan bahan uji simplisia Alphitobius sp. dengan dosis 2,25 mg/kg bb, 4,5 mg/kg bb, 6,75 mg/kg bb dan 9 mg/kg bb. Pemberian bahan uji dan diet tinggi lemak dilakukan selama 14 hari berturut-turut. Hasil uji Anava satu arah ( $P < 0,05$ ) menunjukkan terdapat pengaruh yang nyata terhadap konsentrasi kolesterol total akhir pada semua dosis perlakuan. Penurunan konsentrasi kolesterol terbesar dicapai oleh kelompok dosis 4,5 mg/kg bb yang juga merupakan dosis efektif dalam menurunkan konsentrasi kolesterol total yang mendekati nilai kelompok kontrol normal.

### <b>ABSTRACT</b><br>

A research was done in to determine the effect of simplicia Alphitobius sp. intake on plasma total cholesterol concentration in white male rat Sprague-Dawley (*Rattus norvegicus* L.). Twenty-four male rats were separated into six treatment groups consisting of normal control group that were given a standard diet, treatment control group fed a high fat diet , and four treatment groups that were given a high fat diet and simplicia Alphitobius sp. with a different dose (2,25 mg/kg bw, 4,5 mg/kg bw, 6,75 mg/kg bw and 9 mg/kg bw). Provision of test material was done every day for 14 consecutive days. The result of one-way Anava test ( $P < 0,05$ ) indicates that there is a significant effect on total cholesterol concentration at all treatment doses, showed that provision of simplicia Alphitobius sp. lower total cholesterol potentially. The biggest decrease of total cholesterol concentrations was achieved by dose 4,5 mg/kg bw, which is also an effective dose in lowering total cholesterol concentrations approached normal value.

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