

Pengaruh pemberian fortifikan NaFeEDTA dalam tepung tempe dan susu kedelai terhadap kadar natrium plasma darah tikus putih (*rattus norvegicus* l.) jantan galur sprague-dawley = The effect of nafeedta fortificant addition in tempeh flour and soy milk intake on plasma sodium concentration in male sprague dawley rats (*rattus norvegicus* l)

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Abstrak

ABSTRAK

Telah dilakukan penelitian untuk mengetahui pengaruh pemberian fortifikan NaFeEDTA dalam tepung tempe dan susu kedelai terhadap kadar natrium plasma darah tikus (*Rattus norvegicus* L.) jantan galur Sprague Dawley. Sebanyak 25 ekor tikus dibagi ke dalam 5 kelompok: kelompok kontrol 1 (KK1) yang diberi CMC 0,5%, kelompok kontrol 2 (KK2) yang diberi tepung tempe atau susu kedelai, dan tiga kelompok perlakuan (KP1, KP2, KP3) yang diberi tepung tempe atau susu kedelai dengan fortifikan NaFeEDTA dosis 1,35 mg Fe/ kgBB; 2,7 mg Fe/ kgBB; 5,4 mg Fe/ kgBB selama 21 hari berturut-turut. Penentuan kadar natrium plasma dengan alat AES (Atomic Emission Spectroscopy). Hasil uji Anava satu arah ($P > 0,05$) menunjukkan tidak ada pengaruh nyata pemberian fortifikan NaFeEDTA dalam tepung tempe dan susu kedelai terhadap kadar natrium antar kelompok perlakuan. Kadar natrium plasma pada T21 dengan bahan uji tepung tempe dan susu kedelai tetap berada pada rentang normal antara 0,456 mg/ml -- 0,586 mg/ml.

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ABSTRACT

The effect of NaFeEDTA fortificant inserted in tempeh flour and soy milk intake on plasma sodium concentration in male Sprague-Dawley rats (*Rattus norvegicus* L.) had been studied. Twenty five rats were divided into five groups: control group 1 (KK1) was administered with CMC 0.5%, control group 2 (KK2) was administered with tempeh flour or soy milk; three treatment groups (KP1, KP2, KP3) were administered with tempeh flour or soy milk added with fortificant NaFeEDTA 1.35 mg Fe/kgBw; 2.7 mg Fe/kgBw; 5.4 mg Fe/kgBw consecutive for 21 days. Plasma sodium concentration was measured by AES (Atomic Emission Spectroscopy). One way Anova test ($P > 0.05$) showed there is no significant effect of fortificant NaFeEDTA inserted in tempeh flour and soy milk intake on plasma sodium concentration in all treatment groups. Plasma sodium concentration on T21 which was administered with tempeh flour and soy milk remains in normal range between 0.456 mg/ml ? 0.586 mg/ml.