

Pengaruh Pemberian Puree Tomat (*Solanum esculentum* Mill) Terhadap Struktur dan Fungsi Testis Tikus Putih Galur Wistar (*Rattus norvegicus*) yang Telah Diinduksi MSG

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Abstrak

Penelitian ini bertujuan untuk mengetahui adanya pengaruh puree tomat terhadap testis (berat dan volume), diameter tubulus seminiferus, dan jumlah sel Leydig. Jenis penelitian ini adalah eksperimental menggunakan rancangan acak lengkap (RAL) non faktorial menggunakan 25 ekor tikus putih. Penelitian ini mempunyai lima taraf perlakuan yaitu P_0 sebagai kontrol; P_1 diberi MSG 0,96gr/200gr BB setiap hari selama 15 hari; P_2 diberi MSG 0,96 gr/200gr BB selama 15 hari setelah itu diberi 0,74gr/200 gr BB puree tomat selama 30 hari; P_3 diberi MSG 0,96 gr/200gr BB selama 15 hari setelah itu diberi 1,49gr/200 gr BB puree tomat selama 30 hari; P_4 diberi MSG dengan dosis 0,96 gr/200gr BB selama 15 hari setelah itu diberi 2,24gr/200 gr BB puree tomat selama 30 hari. Data yang diperoleh diuji dengan ANOVA kemudian dilanjutkan dengan uji BNT. Hasil yang diperoleh menunjukkan bahwa puree tomat berpengaruh secara nyata terhadap berat testis dan jumlah sel Leydig. Dan tidak berpengaruh nyata terhadap volume testis dan diameter tubulus seminiferus.

Kata Kunci : Puree Tomat, Monosodium Glutamat, Testis Tikus Wistar

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Effect of Tomato Puree Giving (*Solanum esculentum* Mill) Against Structure and Function of White Wistar Rats (*Rattus Norvegicus*) Tested MSG

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Abstract

This study aims to determine the effect of tomato puree on testis (weight and volume), diameter of seminiferous tubules, and number of Leydig cells. The type of this research was experimental using completely non-factorial randomized design (RAL) using 25 white rats. This research has five treatment level that is P0 as control; P1 is given MSG 0.96gr / 200gr BW daily for 15 days; P2 was given MSG 0.96 gr / 200gr BW for 15 days after it was given 0.74 gr / 200 gr BW puree tomato for 30 days; P3 was given MSG 0.96 gr / 200gr BW for 15 days after it was given 1.49 gr / 200 gr BW puree tomato for 30 days; P4 was given MSG with a dose of 0.96 gr / 200gr BW for 15 days after it was given 2.24gr / 200 gr BW puree tomato for 30 days. The data obtained were tested with ANOVA followed by BNT test. The results show that the tomato puree significantly affects the weight of the testes and the number of Leydig cells. And no significant effect on testicular volume and diameter of seminiferous tubules.

Keywords: Tomato Puree, Monosodium Glutamate, Wistar Rats Tested

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