

ABSTRAK

PENGARUH PEMBERIAN TEPUNG TULANG IKAN BANDENG (*Chanos chanos*) FREEZEDRY TERHADAP KADAR TESTOSTERON DADA AYAM BANGKOK (*Gallus domesticus*) JANTAN

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Penelitian ini bertujuan untuk mengetahui pengaruh pemberian tepung tulang ikan bandeng (*Chanos chanos*) yang dikeringkan menggunakan *freeze-dry* terhadap kadar testosteron otot dada ayam bangkok (*Gallus domesticus*) jantan. Penelitian ini menggunakan 9 ekor ayam bangkok yang terbagi menjadi dua kelompok, yaitu empat ekor ayam pada kelompok Kontrol (P0) yang diberi pakan komersial dan lima ekor ayam kelompok Perlakuan (P1) yang diberi pakan komersial ditambah tepung tulang ikan bandeng dengan dosis 3,3 gram/ekor/hari. Pemberian perlakuan dilakukan selama 35 hari dan pada akhir penelitian, ayam dinekropsi untuk pengambilan sampel otot dada sebanyak 100 mg dari masing-masing ayam. Sampel otot dihancurkan, dimasukkan ke dalam tabung eppendorf berisi *Phosphat Buffer Saline* (PBS) sebanyak 1 ml. Kesemua sampel dilakukan metode siklus beku-cair sebanyak dua kali serta disentrifus. Sampel diambil supernatan dan disimpan dalam *freezer* sampai uji ELISA dilakukan. Pada hasil pengujian, didapatkan bahwa rerata kadar testosteron otot dada kelompok Perlakuan (P1) lebih tinggi yaitu $3,78 \pm 0,25$ dibanding kelompok Kontrol (P0) yaitu $1,88 \pm 0,81$. Hasil uji statistik menunjukkan bahwa pemberian tepung ikan bandeng yang dikeringkan menggunakan *freeze-dry* berpengaruh secara signifikan ($p < 0,05$) terhadap kadar testosteron otot dada. Berdasarkan hasil penelitian dapat disimpulkan bahwa pemberian tepung tulang ikan bandeng yang dikeringkan menggunakan *freeze-dry* sebanyak 3,3 gram/ekor/hari selama 35 hari berpengaruh terhadap kadar testosteron otot dada ayam bangkok.

Kata kunci: Ayam bangkok, testosteron, tulang ikan bandeng

ABSTRACT

THE EFFECT OF FREEZEDRIED MILKFISH BONE MEAL (*Chanos chanos*) ON TESTOSTERONE LEVELS OF MALE BANGKOK CHICKEN (*Gallus domesticus*)

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This research intended to determine the effect of giving milkfish bone meal (*Chanos chanos*) dried using freeze-dry on testosterone levels of male chicken breast muscles (*Gallus domesticus*). This research was conducted using 9 bangkok chickens which were divided into two groups, four chickens in the Control group (P0) which were given commercial feed and five chickens in the Treatment group (P1) which were given commercial feed plus milkfish bone meal at a dose of 3.3 grams/head/day. The treatment was given for 35 days and at the end of the research, chickens were necropsied for sampling of breast muscles as much as 100 mg from each chicken. Muscle samples were destroyed and inserted into an eppendorf tube containing 1 ml of *Phosphat Buffer Saline* (PBS). All samples were carried out twice as a freeze-liquid cycle method and centrifuged. Samples are taken supernatant and stored in the freezer until the ELISA test is performed. In the test results, it was found that the average testosterone level of the chest muscles of the Treatment group (P1) was higher $3,78 \pm 0,25$ than the testosterone level of the Control group (P0) which was $1,88 \pm 0,81$. The results of statistical tests showed that the administration of milkfish bone meal dried using freeze-dry had a significant effect ($p < 0.05$) on testosterone levels of breast muscles. Based on the results of the research, it can be concluded that giving milkfish bone meal dried using freeze-dry as much as 3.3 grams/head/day for 35 days can affect the testosterone levels of bangkok chicken breast muscles.

Key words : Bangkok chicken, milkfish bone, testosterone