

## **ABSTRAK**

### **KORELASI ANTARA BOBOT BADAN DAN BOBOT OTOT DADA AYAM BANGKOK YANG DIBERI SUPLEMEN BUBUK CANGKANG KERANG DARAH DAN BUBUK TULANG IKAN BANDENG**

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Ayam bangkok sering dimanfaatkan sebagai ayam aduan sehingga harus memiliki performa seperti bobot badan dan bobot otot dada yang baik. Bubuk cangkang kerang darah dan tulang ikan bandeng memiliki kandungan protein yang tinggi dan Zinc yang berperan sebagai penghambat aromatase yang dapat menghambat konversi testosteron menjadi estrogen sehingga kadar testosteron dalam darah meningkat. Penelitian ini bertujuan untuk mengetahui pengaruh pemberian bubuk cangkang kerang darah dan bubuk tulang ikan bandeng terhadap bobot badan dan bobot otot dada ayam bangkok. Penelitian ini menggunakan 6 ekor ayam bangkok jantan berumur 3 bulan yang dibagi menjadi kelompok kontrol dan kelompok perlakuan pemberian suplemen bubuk cangkang kerang sebanyak 6,6 gram dan bubuk tulang ikan bandeng 3,3 gram. Perlakuan diberikan selama 35 hari secara peroral dengan pencampuran suplemen ke dalam pakan. Penimbangan bobot badan dilakukan pada hari ke-0, 7, 14, 21, 28 dan 35. Pada akhir penelitian, semua ayam bangkok dieuthanasia dan diambil sampel otot dada untuk ditimbang. Hasil penelitian diperoleh bahwa rata-rata peningkatan bobot badan kelompok perlakuan lebih tinggi yaitu  $0,85 \pm 0,08$  kg daripada kelompok kontrol yang hanya  $0,79 \pm 0,024$  kg. Bobot otot dada ayam bangkok kelompok perlakuan yaitu  $128,6 \pm 15,65$  gr juga lebih tinggi dibandingkan dengan kelompok kontrol yang hanya  $116,7 \pm 7,69$  gr. Hasil analisis statistik menunjukkan bahwa bobot badan dan bobot dada ayam bangkok baik pada kelompok kontrol maupun kelompok perlakuan mengalami peningkatan namun tidak signifikan ( $p > 0,05$ ). Hasil analisis korelasi juga menunjukkan bahwa terdapat korelasi ( $p < 0,05$ ) positif yang kuat antara bobot otot dada dengan bobot badan ayam bangkok pada kelompok kontrol maupun kelompok perlakuan. Suplemen bubuk cangkang kerang darah dan bubuk tulang ikan bandeng dapat meningkatkan bobot badan dan bobot otot dada ayam bangkok jantan namun tidak signifikan serta terdapat korelasi positif antara bobot otot dada dan bobot badan ayam bangkok.

**Kata kunci:** Ayam bangkok, cangkang kerang darah, tulang ikan bandeng, zinc, protein, bobot badan, bobot otot dada

## ABSTRACT

### **CORRELATION BETWEEN BODY WEIGHT AND BREAST MUSCLE WEIGHT OF BANGKOK ROOSTER TREATED WITH SUPPLEMENTS OF BLOOD CLAMSHELL AND MILKFISH BONE POWDER**

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Bangkok rooster is often used as a fighting cock so it must have good performance such as body and breast muscle weight. Blood clamshell and milkfish bone powder contain high protein and Zinc which act as an aromatase inhibitor which can inhibit the conversion of testosterone to estrogen that can increase testosterone level in blood. The purpose of this study was to determine the effect of giving blood clamshell and milkfish bone powder to body and breast muscle weight. This study used 6 bangkok rooster chickens aged 3 months which were divided into control group and treatment group with supplement 6,6 gram of clamshell powder and 3,3 gram of fishbone powder. The treatment was given peroral route by mixing the supplement into the feed. Body weight was measured on days 0, 7, 14, 21, 28 and 35. At the end of study, all of bangkok rooster were euthanized and breast muscle sample were taken for weighing. The results showed that the average increase in body weight in the treatment group was  $0.85 \pm 0.08$  kg compared to the control group which was only  $0.79 \pm 0.024$  kg. The breast muscle weight of the Bangkok chickens in the treatment group, which was  $128.6 \pm 15.65$  gr, was also higher than the control group which was only  $116.7 \pm 7.69$  gr. The results of statistical analysis showed that the body weight and breast weight of bangkok rooster in both the control group and the treatment group increased but not significantly ( $p > 0.05$ ). The result of correlation analysis showed there was a strong positive correlation ( $p < 0.05$ ) between breast muscle weight and body weight in the control group and the treatment group. Supplements of blood clamshell powder and milkfish bone powder can increase body weight and breast muscle weight of bangkok roosters but not significantly and there was a positive correlation between breast muscle weight and body weight.

**Keywords:** Bangkok rooster, blood clamshell, milkfish bone, zinc, protein, body weight, breast muscle weight