

KUALITAS KERABANG TELUR AYAM YANG DIBERI PAKAN DENGAN PENAMBAHAN ASAM GUANIDINO ASETAT DAN KADAR PROTEIN BERBEDA

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INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh penambahan asam guanidino asetat (AGA) dan kadar protein berbeda dalam pakan terhadap kualitas eksternal kerabang telur ayam. Sebanyak 288ekor ayam petelur strain Lohman Brown yang berumur 60 minggu dipelihara selama 12 minggu dan dibagi ke dalam empat perlakuan pakan, masing-masing perlakuan menggunakan enam pengulangan dan setiap pengulangan terdiri dari 12 ekor ayam. Metode yang digunakan adalah Rancangan Acak Lengkap (RAL) pola searah. Perlakuan terdiri dari P16 (PK 16,00% dan asam guanidino asetat 0,00%), P16_{AGA} (PK 16% dan asam guanidino asetat 0,10%), P18 (PK 18,00% dan asam guanidino asetat 0,00%), dan P18_{AGA} (PK 18% dan asam guanidino asetat 0,10%). Variabel yang diteliti antara lain bobot telur, bobot kerabang telur, presentase kerabang telur, ketebalan kerabang telur, kadar kalsium kerabang, dan kadar fosfor kerabang. Hasil penelitian menunjukkan bahwa penambahan AGA 0,10% dapat menurunkan kadar fosfor dalam kerabang telur ayam baik pada perlakuan pakan dengan kadar protein 16% maupun 18%. Kadar fosfor pada kerabang telur ayam yang diberi pakan dengan penambahan AGA 0,10% dan kadar protein 18% adalah formula ransum yang optimal untuk mendapatkan kadar fosfor yang sesuai standar.

(Kata Kunci: Asam Guanidino Asetat, Fosfor, Kerabang Telur Ayam, Kalsium)

QUALITY OF CHICKEN EGG SHELL FED BY THE ADDITION OF GUANIDINO ACETIC ACID AND DIFFERENT PROTEIN LEVEL

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ABSTRACT

This research aimed to evaluate the effects of supplementation of guanidino acetic acid and different protein levels in feed quality of chicken eggshells. A total of 288 laying hens of 60 weeks strain Lohmann Brown were maintained for 12 weeks and divided into four groups of feeding treatments, each treatment consisted of six replications and each replication consisted of 12 laying hens. The treatments of feed were P16 (protein 16% and without guanidino acetic acid), P16_{AGA} (protein 16% and guanidino acetic acid 0.10%), P18 (protein 18% and without guanidino acetic acid), dan P18_{AGA} (protein 18% and guanidino acetic acid 0.10%). Data collected were egg weight, eggshell weight, percentage, thickness, calcium content, and phosphorus content. The result showed that addition of 0,10% guanidino acetic acid can reduced levels of phosphorus in chicken eggshells both with 16% protein level and 18% protein level fed. An eggshell with addition of guanidino acetat acid 0,10% and 18% protein content showed the level of phosphorus still on the eggshell standard.

(Key Words : Guanidino Acetic Acid, Phosphorus, Chicken Eggshell, Calcium)