

PENGARUH SUPLEMENTASI TEPUNG CABAI MERAH (*Capsicum annuum* L.) PADA RANSUM AYAM PETELUR TERHADAP DAYA SIMPAN TELUR

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INTISARI

Penelitian ini bertujuan untuk mengevaluasi pengaruh suplementasi tepung cabai merah (*Capsicum annuum* L.) dalam ransum ayam petelur terhadap daya simpan telur. Penelitian dilakukan selama 10 minggu di Gudang Agromix Lestari, Kulonprogo, Daerah Istimewa Yogyakarta, menggunakan 100 ekor ayam petelur berumur 50 minggu yang dibagi secara acak ke dalam 4 perlakuan pakan: TC0 (kontrol), TC0,25 (suplementasi 0,25% tepung cabai merah), TC0,5 (suplementasi 0,5% tepung cabai merah) dan TC0,75 (suplementasi 0,75% tepung cabai merah), masing-masing dengan lima replikasi. Telur diuji pada hari ke-0, ke-7, dan ke-14 setelah dikoleksi untuk mengukur indeks *Albumen*, persentase *Albumen*, pH *Albumen*, indeks *Yolk*, persentase *Yolk*, pH *Yolk*, dan *Haugh unit* (HU). Data dianalisis menggunakan ANOVA dan uji DMRT dengan bantuan perangkat lunak SPSS. Hasil penelitian menunjukkan bahwa perlakuan TC0,5 dan TC0,75 mampu menekan laju peningkatan pH *Albumen* dan pH *Yolk* selama 14 hari penyimpanan.

Kata kunci: Ayam petelur, cabai merah (*Capsicum annuum* L.), daya simpan telur.

EFFECT OF RED CHILI POWDER (*Capsicum annuum* L.) SUPPLEMENTATION IN LAYING HEN RATIONS ON EGG SHELF LIFE

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ABSTRACT

This study aimed to evaluate the effect of red chili powder (*Capsicum annuum* L.) supplementation in laying hen diets on egg shelf life. The research was conducted over 10 weeks at Gudang Agromix Lestari, Kulonprogo, Special Region of Yogyakarta, using 100 laying hens aged 50 weeks. The hens were randomly assigned to four dietary treatments: TC0 (control), TC0.25 (0.25% red chili powder supplementation), TC0.5 (0.5% red chili powder supplementation), and TC0.75 (0.75% red chili powder supplementation), each with five replications. Eggs were evaluated on days 0, 7, and 14 after collection to measure albumen index, albumen percentage, albumen pH, yolk index, yolk percentage, yolk pH, and Haugh unit (HU). Data were analyzed using ANOVA and DMRT tests with the assistance of SPSS software. The results showed that the TC0.5 and TC0.75 treatments were effective in suppressing the increase in albumen pH and yolk pH during 14 days of storage.

Keywords: Laying hens, red chili (*Capsicum annuum* L.), egg shelf life.