

**PENGARUH SUPLEMENTASI KOMBINASI TEPUNG KUNYIT DAN  
SAMBILOTO TERHADAP KUALITAS TELUR AYAM LAYER  
UMUR 24 SAMPAI 29 MINGGU**

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**INTISARI\***

Tujuan penelitian ini adalah untuk mengetahui pengaruh suplementasi kombinasi tepung kunyit dan sambiloto terhadap kualitas telur ayam layer umur 24 sampai 29 minggu. Penelitian ini dilaksanakan di Peternakan Ayam Layer CV. Berkah Mandiri, Desa Karangcengis, Kecamatan Bukateja, Kabupaten Purbalingga. Analisis kualitas telur dilakukan di Laboratorium Produksi Ternak Universitas Mercu Buana Yogyakarta. Penelitian ini dilaksanakan pada tanggal 22 Maret 2020 – 29 April 2020. Materi penelitian menggunakan bahan ayam layer sebanyak 150 ekor dengan umur 24 sampai 29 minggu, dan pakan konsentrat dari PT. Cargill selama penelitian. Rancangan yang digunakan adalah Rancangan Acak Lengkap (RAL) pola searah dengan 5 perlakuan yaitu tepung kunyit dan sambiloto 0, 5, 10, 15, 20 g/kg, masing-masing perlakuan diulang 3 kali. Ulangan masing-masing terdiri dari 10 ekor ayam layer berumur 24 minggu. Data yang diperoleh dianalisis menggunakan analisis variansi (ANOVA), apabila diperoleh hasil berbeda nyata maka dilanjutkan dengan uji *Duncan's New Multiple Range Test* (DMRT). Variabel pengamatan meliputi berat telur, berat kerabang, indeks albumen, berat albumen, indeks yolk, warna yolk, berat yolk, dan haugh unit. Hasil penelitian menunjukkan rerata berat telur berturut-turut untuk 0, 5, 10, 15, dan 20 g/kg adalah 60,33; 59,92; 58,86; 59,75; 60,22 gram. Rerata berat kerabang berturut-turut adalah 7,53; 7,55; 7,39; 7,19; 7,50 gram. Indeks albumen berturut-turut adalah 0,079; 0,085; 0,077; 0,083; 0,076. Berat albumen berturut-turut adalah 32,25; 36,42; 35,86; 36,19; dan 36,80 gram. Indeks yolk berturut-turut adalah 0,334; 0,331; 0,328; 0,343; dan 0,350. Warna yolk berturut-turut adalah 8,67; 8,44; 8,92; 8,42; dan 8,56. Berat yolk berturut-turut adalah 14,67; 14,47; 14,58; 14,64; dan 14,61 gram. Haugh unit berturut-turut adalah 72,81; 75,99; 73,03; 75,85; dan 72,30. Berdasarkan hasil penelitian dapat disimpulkan bahwa pemberian suplementasi tepung kunyit dan tepung sambiloto sampai level 20 gram/kg kualitas telur ayam layer umur 24-29 minggu relatif sama.

Kata kunci : Kualitas telur, tepung kunyit, tepung sambiloto, ayam layer

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**THE EFFECT OF TURMERIC FLOUR AND SAMBILOTO  
COMBINATION SUPPLEMENTATION ON QUALITY OF LAYER 24 TO  
29 WEEKS AGED**

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**ABSTRACT\***

The purpose of this study was to determine the effect of supplementation with the combination of turmeric flour and sambiloto on the quality of layer chicken eggs aged 24 to 29 weeks. This research was conducted at Layer Chicken Farm CV. Blessing Mandiri, Karangcengis Village, Bukateja District, Purbalingga Regency. Analysis of egg quality was carried out at the Laboratory of Animal Production, Mercu Buana University, Yogyakarta. This research was conducted on March 22, 2020 - April 29, 2020. The research material used layer chicken as many as 150 birds aged 24 to 29 weeks, and concentrate feed from PT. Cargill during research. The design used was a completely randomized design (CRD) with 5 treatments, namely turmeric flour and sambiloto 0, 5, 10, 15, 20 g / kg, each treatment was repeated 3 times. Each replication consisted of 10 layer chickens aged 24 weeks. The data obtained were analyzed using analysis of variance (ANOVA), if the results were significantly different then it was continued with Duncan's New Multiple Range Test (DMRT). The observation variables included egg weight, shell weight, albumen index, albumen weight, yolk index, yolk color, yolk weight, and haugh unit. The results showed that the mean egg weight for 0, 5, 10, 15, and 20 g / kg was 60.33; 59.92; 58.86; 59.75; 60.22 grams. The mean weight of shells was 7.53; 7.55; 7.39; 7,19; 7.50 grams. The albumen index is 0.079 respectively; 0.085; 0.077; 0.083; 0.076. The albumen weight is 32.25, respectively; 36.42; 35.86; 36.19; and 36.80 grams. The yolk index is 0.334 respectively; 0.331; 0.328; 0.343; and 0.350. The yolk color was 8.67, respectively; 8,44; 8.92; 8,42; and 8.56. The yolk weight was 14.67, respectively; 14.47; 14.58; 14.64; and 14.61 grams. The successive haugh units are 72.81; 75.99; 73.03; 75.85; and 72.30. Based on the results of the study, it can be concluded that the supplementation of turmeric flour and sambiloto flour up to a level of 20 grams / kg, the quality of layer chicken eggs aged 24-29 weeks is relatively the same.

Keywords: Egg quality, turmeric flour, sambiloto flour, layer chicken

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