

## ABSTRAK

### PENGARUH LAMA PENYIMPANAN TELUR AYAM RAS HERBAL PADA *REFRIGERATOR* TERHADAP PENURUNAN BERAT TELUR, DIAMETER RONGGA UDARA, DAN INDEKS KUNING TELUR

Oleh

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Penelitian ini bertujuan untuk: (1) mengetahui pengaruh lama penyimpanan pada *refrigerator* terhadap penurunan berat telur, diameter rongga udara, dan indeks kuning telur ayam ras herbal, (2) mengetahui lama simpan telur ayam ras herbal yang masih layak konsumsi. Penelitian ini dilaksanakan pada 30 Januari--04 Maret 2024, bertempat di Kampung Baru, Kedaton, Bandar Lampung sebagai tempat penyimpanan telur selama penelitian dan Laboratorium Produksi Ternak, Jurusan Peternakan, Fakultas Pertanian, Universitas Lampung. Materi penelitian menggunakan 100 butir sampel telur ayam ras herbal dengan berat rata-rata  $58,6 \pm 3,97$  g dari ayam ras strain *Isa Brown* fase kedua (umur 72 minggu). Penelitian dilakukan dengan percobaan Rancangan Acak Lengkap (RAL) yang terdiri atas 4 perlakuan meliputi penyimpanan 0, 12, 24, 36 hari dan 5 ulangan. Setiap satuan percobaan terdiri dari 5 butir telur. Data yang diperoleh dianalisis berdasarkan *Analysis of Variance* pada taraf nyata 5%. Hasil yang berpengaruh nyata diuji lanjut menggunakan uji Beda Nyata Terkecil (BNT). Hasil penelitian menunjukkan bahwa perlakuan lama penyimpanan telur ayam ras herbal di *refrigerator* memberikan pengaruh nyata ( $P < 0,05$ ) terhadap penurunan berat telur, diameter rongga udara, dan indeks kuning telur ayam ras herbal. Simpulan pada penelitian ini adalah lama penyimpanan telur ayam ras herbal pada *refrigerator* selama 36 hari masih menunjukkan kualitas yang baik, sehingga telur ayam ras herbal masih layak untuk dikonsumsi.

**Kata kunci:** Telur herbal, penurunan berat telur, diameter rongga udara, indeks kuning telur, *refrigerator*.

## ABSTRACT

### THE EFFECT OF STORAGE TIME OF HERBAL CHICKEN EGG IN THE REFRIGERATOR ON EGG WEIGHT LOSS, AIR CELL DIAMETER, AND YOLK INDEX

By

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This research aims to: (1) determine the effect of storage time in the refrigerator on egg weight loss, air cell diameter, and yolk index of herbal chicken eggs, (2) determine how long to store herbal chicken eggs that are still suitable for consumption. This research was conducted out on January--March 2024, located in Kampung Baru, Kedaton, Bandar Lampung as a place to store eggs during research and the Animal Production Laboratory, Department of Animal Husbandry, Faculty of Agriculture, University of Lampung. The research material used 100 of herbal chicken eggs with an average weight of  $58,6 \pm 3,97$  g from second phase Isa Brown strain chickens (72 weeks old). The research was carried out using a Completely Randomized Design (CRD) experiment consisting of 4 treatments including 0, 12, 24, 36 days of storage and 5 replications. Each experimental unit consists of 5 eggs. The data obtained was analyzed based on Analysis of Variance at a real level of 5%. Results that have a real effect are further tested using the Least Significant Difference (BNT) test. The results of the study showed that the treatment of storage time herbal chicken eggs in the refrigerator had a significant effect ( $P < 0.05$ ) on reducing egg weight, air cavity diameter and yolk index of herbal chicken eggs. The conclusion of this research is that the storage period of herbal chicken eggs in the refrigerator for 36 days still shows good quality, so that herbal chicken eggs are still suitable for consumption.

**Key words:** Herbal eggs, egg weight loss, air cavity diameter, yolk index, refrigerator.