

ABSTRAK

PENGARUH BAHAN LARUTAN PEMBERSIH TERHADAP KUALITAS INTERNAL TELUR AYAM RAS SELAMA PENYIMPANAN

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Penelitian ini bertujuan untuk mengetahui pengaruh larutan pembersih, lama simpan, serta jenis larutan pembersih dan lama simpan terbaik terhadap nilai indeks *albumen*, indeks *yolk*, dan *haugh unit* (HU) telur ayam ras. Penelitian ini dilaksanakan 21 Januari--10 Februari 2022 di Laboratorium Produksi Ternak, Jurusan Peternakan, Fakultas Pertanian, Universitas Lampung. Penelitian dilakukan dengan Rancangan Acak Lengkap (RAL) pola tersarang dengan larutan pembersih (kontrol, air, air hangat, dan alkohol 70%) sebagai petak utama dan lama simpan (7, 14, dan 21 hari) sebagai faktor tersarang. Masing-masing perlakuan diulang sebanyak 3 kali dan setiap ulangan menggunakan 3 butir telur, sehingga total telur yang digunakan yaitu 108 butir, dengan rata-rata berat telur $59,71 \pm 6,33$ g dengan koefisien keragaman sebesar 4,58%. Peubah yang diamati meliputi *haugh unit*, indeks *albumen*, dan indeks *yolk*. Data yang diperoleh dianalisis ragam pada taraf 5%, jika berbeda nyata dilanjutkan dengan uji BNT. Hasil penelitian indeks *albumen*, indeks *yolk*, dan *haugh unit* (HU) menunjukkan bahwa perlakuan larutan pembersih tidak berpengaruh nyata ($P>0,05$), sedangkan perlakuan lama simpan berpengaruh nyata ($P<0,05$). Lama simpan 7 hari dapat mempertahankan indeks *albumen*, indeks *yolk*, dan *haugh unit* (HU) dari semua perlakuan. Disimpulkan bahwa larutan pembersih dan lama simpan terbaik yaitu alkohol 70% dan 7 hari penyimpanan.

Kata kunci: *Haugh unit*, Indeks *albumen*, Indeks *yolk*, Lama simpan, Larutan pembersih

ABSTRACT

THE EFFECT OF CLEANING LIQUID ON THE INTERNAL QUALITY OF PUREBRED-CHICKEN EGG DURING STORAGE

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This research aimed to determine the effect of cleaning liquid, storage duration, and the type of the best cleaning liquid and storage duration on the albumen index, yolk index, and haugh unit (HU) of purebred-chicken egg. This research was conducted from 21 January--10 February 2022 at the Livestock Production Laboratory, Department of Animal Husbandry, Faculty of Agriculture, University of Lampung. This research was conducted using a completely randomized design (CRD) with a nested pattern with cleaning liquid (control, water, warm water, and alcohol 70%) as the main plot and long storage (7, 14, and 21 days) as subplots. Each treatment was repeated 3 times and each replication used 3 eggs, so that the total eggs used were 108 eggs with average egg weight of $59,71 \pm 6,33$ and coefficient of diversity of 4,58%. The observed variables included albumen index, yolk index, and haugh unit (HU). The research data were analyzed with analysis of variance at the 5% level, if significantly different, continued with the BNT test. The results of the albumen index, yolk index, and haugh unit (HU) test showed that the cleaning liquid treatment had no significant effect ($P > 0,05$), while the storage duration treatment had a significant effect ($P < 0,05$). Storage duration of 7 days can maintain albumen index, yolk index, and haugh unit (HU) from all treatments. It was concluded that the cleaning liquid and the best storage duration were alcohol 70% and 7 days of storage.

Keywords: *Haugh unit, Albumen index, Yolk index, Storage duration, Cleaning liquid*