

PENGARUH PERENDAMAN TELUR AYAM RAS DALAM EKSTRAK DAUN BELIMBING WULUH (*Averrhoa bilimbi* Linn.) TERHADAP BERAT TELUR, HU (*Haugh Unit*), SIFAT FUNGSIONAL dan CEMARAN BAKTERI *Salmonella sp.*

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RINGKASAN

Penelitian ini dilakukan untuk mengetahui Pengaruh Perendaman Telur Ayam Ras Dalam Ekstrak Daun Belimbing Wuluh (*Averrhoa bilimbi* L.) Terhadap Berat Telur, HU (*Haugh Unit*), Sifat Fungsional dan Cemaran Bakteri *Salmonella Sp.* Penelitian dilakukan di Laboratorium Nutrisi dan Makanan Ternak Politeknik Negeri Lampung yang dilaksanakan pada bulan Juni – Juli 2023. Penelitian dilakukan dengan menggunakan 60 butir telur dengan empat perlakuan dan lima ulangan dengan Rancangan Acak Lengkap (RAL). Perlakuan perendaman dengan kadar 30% yaitu, P0= tanpa perendaman, P1= 6 jam perendaman, P2= 12 jam perendaman. Dan P3= 24 jam perendaman. Pengukuran parameter diambil tiap minggunya selama 3 minggu. Data dianalisis dengan ANOVA dan uji lanjut DMRT (*Duncan's Multiple Range Test*) dengan $\alpha = 0,05$. Berdasarkan hasil penelitian menunjukkan bahwa ekstrak daun belimbing wuluh 30% berpengaruh nyata ($P < 0,05$) terhadap berat telur, HU (*Haugh Unit*), sifat fungsional (daya dan kestabilan buih putih telur), dan cemaran bakteri *Salmonella sp.* Lama perendaman 24 jam (P3) ekstrak daun belimbing wuluh 30% memberikan pengaruh terbaik terhadap persentase penurunan berat telur 0,28%, HU 82,98 (Grade AA), sifat fungsional daya buih 713,54% dan daya buih 5,58% pada minggu pertama. Sedangkan daya hambat terhadap bakteri *Salmonella sp.* pada sampel yang diuji negatif hingga minggu ke-2.

Kata kunci: belimbing wuluh, telur, *Salmonella sp.*

**THE EFFECT OF IMMERSION LAYER CHICKEN EGG IN
AQUEOUS EXTRACT OF STARFRUIT LEAVES (*Averrhoa
bilimbi* Linn.) ON EGG WEIGHT, HU (*Haugh Unit*),
FUNCTIONAL CHARACTERISTICS, and BACTERIAL
CONTAMINATION OF *Salmonella sp.***

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ABSTRACT

This research was conducted to know the effect of immersion layer chicken egg in aqueous extract of starfruit leaves (*Averrhoa bilimbi* L.) on egg weight, HU (*Haugh Unit*), functional characteristics, and bacterial contamination of *Salmonella sp.* The research was conducted at the Lampung State Polytechnic Animal Livestock Feed and Nutrition Laboratory which was carried out in June-July 2023. The research was carried out using 60 eggs with four treatments and five replications with a Completely Randomized Design (CRD). Immersion treatment with a content of 30% were P0 = no immersion, P1 = 6 hours of immersion, P2 = 12 hours of immersion. And P3 = 24 hours of immersion. Parameter measurements were taken every week for 3 weeks. Data were analyzed using ANOVA and DMRT (Duncan's Multiple Range Test) with $\alpha = 0.05$. Based on the research results, it shows that 30% starfruit leaf extract has a significant effect ($P < 0.05$) on egg weight, HU (*Haugh Unit*), functional characteristics (foamability and stability of albumen foaming), and bacterial contamination of *Salmonella sp.* Immersion of 24 hours (P3) 30% starfruit leaf extract gave the best effect on egg weight reduction percentage of 0.28%, HU 82.98 (Grade AA), functional characteristics were foamability 713.54% and stability foaming 5.58% in the first week. Meanwhile, the inhibitory power against *Salmonella sp.* in samples that tested negative until the 2nd week.

Keywords: starfruit leaves, egg, *Salmonella sp.*