

Pengaruh Pencelupan Menggunakan Larutan Jeruk Nipis (*Citrus aurantifolia*) Terhadap Kualitas Interior dan Total Bakteri Telur Ayam Ras

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh pencelupan larutan jeruk nipis (LJN) terhadap kualitas interior dan total bakteri telur ayam ras. Penelitian ini menggunakan rancangan acak lengkap (RAL) dengan enam belas perlakuan dan tiga ulangan. Perlakuan pencelupa larutan jeruk nipis yaitu T0 (tanpa pencelupan), T1 (25% LJN), T2 (50% LJN), dan T3 (75% LJN). Pengujian dilakukan setiap satu minggu sekali yaitu pada umur simpan 7 hari, 14 hari, 21 hari, dan 28 hari. Parameter yang diamati yaitu ukuran rongga udara, indeks kuning telur, indeks albumen, nilai pH, *haugh unit*, dan *total plate count* (TPC). Hasil penelitian menunjukkan bahwa pencelupan telur ayam ras menggunakan larutan jeruk nipis berpengaruh sangat nyata ($P < 0,01$) terhadap ukuran rongga udara, indeks putih telur dan *haugh unit* telur ayam ras tetapi tidak berpengaruh terhadap nilai pH dan indeks kuning telur. Telur ayam ras yang dicelupkan dengan larutan jeruk nipis dengan konsentrasi 75% memiliki kualitas interior lebih baik dan mencegah bakteri masuk ke dalam telur.

Kata kunci: Larutan jeruk nipis, Kualitas interior, Total bakteri, Telur ayam ras

The Dyeing Effect of Using Lime Solution (*Citrus aurantifolia*) for Interior Quality and Total Bacteria of Egg Laying Hens

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ABSTRACT

The aim of this research is to what extent know the effect of lime solution (LJN) on interior quality and total plate count at sixty four egg laying hens. The experiment was arranged in a completely randomized design (RAL) with eight treatments and three replications. Dyeing treatments were aquadest liquid with 0% LJN (control), 25% LJN (T1), 50% LJN (T2), 75% LJN (T3) The experiment was conducted during a month and divided into four times testing each week. The measurement parameters were air cell size, yolk index (IKT), albumen index (IPT), pH of egg, haugh unit and, total plate count (TPC). The result explains that dyeing egg on LJN highly significant affected ($P < 0.01$) air cell size, albumen index, and haugh unit however it was not affecting toward pH value and yolk index of laying hens. Meanwhile, the level of lime solution (LJN) recommended to maintain the quality of egg and avoid the entry of bacterial is 75%.

Key word: Lime solution, Interior quality, Total plate count, Egg laying hens