

**PENGARUH PENGGUNAAN TEPUNG RUMPUT LAUT  
DALAM RANSOM AYAM PETELUR TERHADAP  
HERAT DAN WARNA KUNING TELUR**

Oleh

Kresno Sigit Sanggrama Wijaya Murti  
98/121609/PT/03629

**INTISARI**

Penelitian ini bertujuan untuk mengetahui pengaruh penggunaan tepung rumput laut dalam ransum ayam petelur terhadap berat dan warna kuning telur. Sebanyak 60 ekor ayam petelur Strain Lohmann Brown dibagi kedalam 4 kelompok perlakuan T0, T1, T2 and T3 dengan tiap perlakuan memperoleh komposisi rumput laut sebesar 0, 5, 10 dan 15%. Tiap kelompok perlakuan terdiri dari 5 ulangan dan tiap ulangan berisi 3 ekor ayam. Ransum disusun secara iso energi (2700 kcal/kg) dan iso protein (16% PK). Pakan dan air minum diberikan secara *ad libitum*. Data yang diambil meliputi berat telur, berat kuning telur, warna kuning telur, dan absorbansi warna kuning telur. Data yang diperoleh dianalisa menggunakan rancangan acak lengkap pola searah. Hasil analisa variansi menunjukkan perbedaaan yang tidak nyata terhadap berat telur R0, R1, R2, R3, dengan rerata 57,09; 57,16; 57,50; 58,85 g/butir, rerata berat kuning telur 14,43; 14,55; 14,47; 14,54 g/butir. Rerata warna kuning telur 8,45; 8,60; 8,40; 8,65, dan rerata absorbansi warna kuning telur adalah 0,330; 0,283; 0,386; 0,341. Berdasarkan hasil penelitian disimpulkan bahwa rumput laut dapat digunakan sampai level 15% pada ransum ayam petelur.

(Kata kunci : Tepung Rumput Laut, Warna Kuning Telur, Ayam Petelur).

**THE EFFECT OF SEAWEED MEAL ON WEIGHT AND  
YOLK COLOR IN LAYER DIET**

by

Kresno Sigit Sanggrama Wijaya Murti  
98/121609/PT/03629

**ABSTRACT**

The research was conducted to investigate the effect of using seaweed meal (SW) on weight and yolk color. Sixties 28 weeks old of Lohmann Strain Brown laying hens were divided randomly into 4 treatment groups of rations. Each treatment was consisted of 5 replications and each replication consisted of 3 laying hens. The experimental diets were those of R0 (0% SW), R1 (5% SW), R2 (10% SW) and R3 (15% SW). The experimental rations were iso energy (2700 kcal/kg) and iso protein (16% CP). The ration and water were given *ad libitum*. The observed variables were egg weight, yolk weight, yolk color value, and yolk color absorbtion value by spectrophotometer. The experiment was done following Completely Randomized Design. The data obtained were analyzed by variant analysis, indicated that the weight of the egg, yolk weight, yolk color value, and yolk color absorbtion value were not significantly different. The average of egg weight for R0, R1, R2, R3 were 57.09, 57.16, 57.50, and 58.85 g/egg respectively. The average of yolk weight were 14.43, 14.55, 14.47, 14.54 g/egg, the yolk color values were 8.45, 8.60, 8.40, 8.65, and the yolk color absorbtion value were 0.330, 0.283, 0.386, 0.341. It was concluded that the seaweed meal could be applied in laying hens rations to the level of 15%.

(Key words : Seaweed Meal, Yolk Color, Layer).