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THE EFFECTS OF BROMELAIN ON PERFORMANCE, EGG QUALITY, EGG YOLK NUTRITIVE VALUE IN LAYING HENS

Guler YENICE*
Hatice ISKENDER**
Eda DOKUMACIOGLU**
Ozgur KAYNAR****
Adem KAYA[1]
Armagan HAYIRLI[2]
Gurkan SEZMIS[3]

Abstract

Bromelain belongs to a group of a protein digesting enzymes obtained from the fruit or stem of pineapple plant. The purpose of this study was to evaluate the effects of dietary supplementation at different levels of bromelain (0.15, 0.30, 0.45 g/kg) on the performance, egg quality, egg yolk protein and lipid profile in laying hens. This completely randomized design experiment involved in Lohmann White strain laying hens (N= 24 or 6 cages/per group, 28-wk old) and last 8 weeks. Data were subjected to 2-way ANOVA (Table 1-5). Bromelain supplementations did not affect feed consumption, egg production, egg weight, feed conversion efficiency, and body weight. There were significant increases in the eggshell thickness and weight (g) parallel to the increased doses of bromelain. Bromelain supplementations decreased the percentages of free fatty acids, and triacylglycerol fractions and increased percentages of cholesteryl esters and phospholipids in total lipid while did not affect total cholesterol concentration. A total of 27 individual proteins between 7-205 kDa were detected in eggs yolk. The bromelain was affected individual protein expression in total protein concentration at different ways, and the highest total protein concentration was observed at 0.30g/kg dose of bromelain. In conclusion, bromelain can be used as a chicken feed additive at 0.30g/kg dose despite no effects on performance and other egg quality parameters except the shell thickness and weight, bromelain reduced total lipid and increased nutritionally important fractions (phospholipids and total protein) of egg yolks.

Key word: Bromelain, enzyme, laying hen, performance, protease.

* Asst. Prof., Atatürk University, gulerata@atauni.edu.tr, TURKEY
** Asst. Prof., Artvin Çoruh University, TURKEY
** Asst. Prof., Artvin Çoruh University, TURKEY
**** Assoc. Prof, Atatürk University, TURKEY
[1] Asst. Prof., Atatürk University, TURKEY
[2] Prof. Dr. Atatürk University, TURKEY
[3] Research Assistant, Atatürk University, TURKEY