Abstract

EFFECT OF CALCIUM PYROGLUTAMATE (MSHELL) LAYING HENS PERFORMANCE

NGO Hong-Phuong1 & LE Thi Hien2

1 Nong Lam University, Hochiminh city, Vietnam

2 Olmix Vietnam

This study investigated the effects of new source of calcium which is calcium pyroglutamate (the main composition of Mshell) on performance of laying hens and quality of the eggs. A total number of 38049 Isa Brown layers, divided to 2 groups with 18886 layers in control group and treatment group with 19163 layers. The initial age of layers was 42 weeks. The birds used home mixing feed. Mshell was added in treatment group with dosage 1kg/ton of feed from 42-54 week olds. The results showed that incorporation of Mshell into the diet had effect importance in egg weight, yolk color scores, Haugh unit, thick albumin weight and shell thickness (P<0.05) but there is no effect in yolk weight (P>0.05).

In conclusion, using Mshell is involved in calcium metabolism and synthesis of components of the egg shell internal membrane, allows maintenance of egg shell quality and higher production parameters.

Keywords: calcium, layer hens and egg quality