عنوان مقاله:

Influence of Immunobeta® Dietary Supplementation on Egg Production and Some Parameters of Oxidative Stress in Laying Hens

محل انتشار:

مجله علوم و فناوري كشاورزي, دوره 21, شماره 5 (سال: 1398)

تعداد صفحات اصل مقاله: 14

نویسندگان:

- V. Gerzilov Department of Animal Science, Faculty of Agronomy, Agricultural University, 1r Mendeleev str., Food...
- V. Boncheva Department of Animal Science, Faculty of Agronomy, Agricultural University, IF Mendeleev str., Food Ploydiv, Bulgaria.
- A. Alexandrova Laboratory of Free Radical Processes, Institute of Neurobiology, Bulgarian Academy of Sciences, ۲۳

 .Acad. G. Bonchev str, ۱۱۱۳ Sofia, Bulgaria
- E. Tzvetanova Laboratory of Free Radical Processes, Institute of Neurobiology, Bulgarian Academy of Sciences, ۲۳

 .Acad. G. Bonchev str, ۱۱۱۳ Sofia, Bulgaria
 - A. Georgieva Laboratory of Free Radical Processes, Institute of Neurobiology, Bulgarian Academy of Sciences, ۲۳

 .Acad. G. Bonchev str, ۱۱۱۳ Sofia, Bulgaria
 - G. Nenkova Laboratory of Free Radical Processes, Institute of Neurobiology, Bulgarian Academy of Sciences, ۲۳

 .Acad. G. Bonchev str, ۱۱۱۳ Sofia, Bulgaria
- N. Bozakova Department of General Animal Breeding, Faculty of Veterinary Medicine, Trakia University, Student's .Campus, Food Stara Zagora, Bulgaria

خلاصه مقاله:

The aim of this study was to evaluate the effects of the immunostimulant Immunobeta® on egg production and oxidative stress parameters, influenced by the environmental conditions in free range laying hens. A total of A1 laying hens and 9 cocks (Tetra Super Harco) were divided into three groups: group 1 (control) without supplementation; group 1 with 0.7%, and group 1 with 0.7% Immunobeta® as a dietary supplement. The laying period (19-\Delta\Delta weeks of age) was divided into three sub-periods depending on the ambient temperature — cold (from November to March 19-10), from 19-10 to 19-10 weeks of age), thermoneutral (April and May 19-10), from 19-10 to 19-10 weeks of age) and hot period (June and July 19-10), from 19-10 to 20-10 weeks of age). Immunobeta® supplementation dose dependently improved the average egg production and mean egg weight, and in 0.7% dose treatment significantly reduced the feed conversion ratio for the entire laying period. Immunobeta® supplementation influenced the blood oxidative stress parameters, decreasing significantly the lipid peroxidation level during the cold period, increasing the glutathione level in hens supplemented with 0.7% dose in all periods, regulating the catalase activity during the hot period, and increasing glutathione peroxidase activity during the thermoneutral and hot periods. In conclusion, addition of Immunobeta® to the diet

.reduced the oxidative stress induced by thermal stress and enhanced the performance of free range laying hens

کلمات کلیدی: Egg production, Feed conversion ratio, Free-range, Oxidative stress

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https://civilica.com/doc/1817162

