

Clinical Efficacy of Hepabial Carnitine in Improving the Performance of Broilers

Seyed Mostafa Peighambari

Department of Avian Diseases, Faculty of Veterinary Medicine, University of Tehran, Tehran, Iran

Abstract

The purpose of this study was to evaluate the efficacy of Hepabial Carnitine in improving the performance of broiler chickens during a production period in one broiler farm around Tehran. The main ingredient of Hepabial Carnitine is carnitine hydrochloride. Other compounds of this additive include sorbitol, choline chloride, and some other compounds. This product is supplied as an additive solution to poultry drinking water. Its consumption rate for poultry is based on the manufacturer's recommendation at a ratio of 1:1000 and for 5-10 days. Its consumption is not allowed for more than 21 days. A total number of 15,000 one-day-old broilers (Ross 308) were placed in two houses, each with 7,500 chicks. All management, production and nutrition conditions were similar in both houses. Broilers in house 1 received Hepabial Carnitine (SOGIVAL, France) 1:1000 in drinking water for 8 days from 16-23 days of age. Chickens in house 2 did not receive any type of additives and served as control. In each house, 1% chickens were weighed at weekly intervals from 1-49 days of age. Final live weight, food consumption, and feed conversion ratio (FCR) of broilers were calculated at the end of the period in both houses. The percentage of various diseases and complications and the resulting casualties were recorded in two houses. The difference in weight obtained in two houses were compared and analyzed with the Independent-Samples T-test statistical method. The total mortality in house 1 was 799 chicks (11.9%) and that of in house 2 was 1164 chicks (17.8%) (Table 1). At the end of the period, the average weight of chickens in house 1 (2241 gr) was higher than that of house 2 (2177) and birds in house 1 showed better FCR (2.06) than that of house 2 (2.173). It was concluded the Hepabial Carnitine improves the performance of broiler chickens.

Keywords: Broiler, Chicken, Hepabial Carnitine, Performance, Poultry