قسم الدواجن

بسم الله الرحمن الرحيم

بحث رقم (1)

طبيعة البحث: مشترك ومنشور.

عنوان البحث:

EVALUATION OF PROBIOTICS, PREBIOTICS AND SYNBIOTICS AS ALTERNATIVES TO ANTIBIOTIC GROWTH PROMOTERS ON GROWING JAPANESE QUAIL

تقييم البروبيوتيك، البريبيوتك و السينبيوتيك كمنشط نمو بديل للمضادات الحيوية في السمان الياباني.

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ABSTRACT

A total of 225 one day-old quail were randomly distributed at equal body weights into five groups at 10 days of age as control group (with no additives) , antibiotic group (control diet + sub-therapeutic dose of avilamycin 8 mg/kg diet), prebiotic group (control diet + 800g Biolex® MB40/ton) , probiotic group (control diet + 400g AmPhi-BACT/ton) synbiotic group (control diet +800g Pre + 400g Pro). Each group was

replicated three times, 15 chicks/ replicate. The best alternative to antibiotic in terms of overall growth measures was the synbiotic which had the heaviest live body weight 38d , body weight gain , faster growth rate , lower feed conversion and had the best performance index during the period 10 to 38 than other treatments (234.42g, 192.98g, 1.4g/g ,2.81g/g, and 8.46%). Moreover, symbiotic had the best lipid profile, random blood sugar, liver functions, antioxidant parameters and immune response and had the highest number of beneficial bacteria (Lactobacillus) and the lowest number of harmful bacteria (E coli and Salmonella) compared to control. It can be recommended that symbiotic, prebiotic and probiotic can be used as safe, economic and healthy alternatives to avilamycin (antibiotic) as growth promoters.