

The Effect of Adding Different Levels of Inulin During Life Periods On Some Productive Performance Qualities Of Broiler

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Abstract. To assess the use of different levels of Inulin during life periods on the productive performance of broilers. 180 one-day-old un naturalized chicks were bred from ROSS308.. Chicks were randomized to six feeding transactions with three replicates per transaction and ten chicks per repeater according to the Complete Random Design CRD and according to the following: T1: (control treatment) without any addition. T2: addition of 750 mg Inulin/kg feed at the age of 1-3 weeks; T3: addition of 1500 mg Inulin/kg feed at the age of 1-3 weeks, T4: addition of 750 mg Inulin/kg feed at the age of 3 -5 weeks, T5: addition of 1500 mg Inulin/kg feed at the age of 5-3 weeks, T6: addition of 1125 mg Inulin/kg feed at the age of 1-5 weeks. The results showed a significant improvement in body weight, weight gain, feed conversion ratio and production index of the feeding birds in relation to the ratio in which Inulin was added compared to the control group and gave T3,T6 the best results.

Key word: Inulin, Age, Broiler performance.

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Introduction

Poultry projects are an important pillar of countries' national income, as well as the fact that white meat is a rich source of proteins, minerals and vitamins, and as a result of the negative effects of using antibiotics both to treat and stimulate growth, in particular its residues in meat and its impact on the health of consumers from many countries (1). Medicinal herbs and plants and their extracts (2) and (3) which promotes the beneficial microbiology of the birds' digestive tract and misses the opportunity to grow harmful microbiology and thereby strengthen a bird's immune system and increase its production (4), Inulin is now widely used as a bio-probiotic as a potent growth-stimulating material (5). Inulin are polysaccharides found in many plants including dandelion (6) and (7). Inulin has a positive effect on bird health and improves immunity against many diseases (8).

Materials and methods

180 meat chicks were reared at the age of one day, a non-naturalized ross 308 broiler with an average weight of 42 g. The chicks were randomized to six treatments and three

replicates per transaction, 10 birds per replicate, according to the Completely Random Design (CRD). The study used two ready-made samples, one of which was a diet (protein 23.04% and 2945 kcal/kg feed metabolizable energy) in the period from 1 to 21 days of life and another end diet (protein 19.14% 3170 kcal/kg feed metabolizable energy) was used during the period of 22 to 35 days (Table 1). The treatments were as follows: T1: without addition (control), T2: addition of 750 mg