

Investigating the effect of different levels of monensin on production, composition and some characteristics of milk in Holstein cows

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Abstract This study was conducted to investigate the effects of different levels of monensin on production, composition and some characteristics of milk in Holstein cows. This study was based on completely randomized design with 3 treatments and 3 replications on 9 Holstein dairy cattle in the second and third lactation period with an average production of 25 ± 5 kg and live weight of 50 ± 600 kg. Sample collection At the end of each treatment, milking was carried out and then transferred to the lab after mixing and refluxing the test. Environmental conditions including temperature, light, humidity and so on. . . It was the same for all livestock. The treatments were: Shamilin treatment 1 (monosin control), treatment 2 (diet containing 0.2 g monensin) and treatment 3 (diet containing 0.4 g monensin), mixed in daily ration in three meals during 8 The test week was given to livestock. Data analysis was performed using SAS software and comparison of meanings with Duncan method. According to the obtained results, it was found that the total milk produced by treatment 2 with control and treatment 3 showed significant differences ($P \leq 0.05$). The difference between treatments 1 and 3 was not significant ($P \leq 0.05$). The most significant amount of milk produced is related to treatment 2. Comparison of mean percentage of sucrose fats in the treated treatments did not show any significant difference among treatments ($P \leq 0.05$). Based on the results of this study, the average of the somatic cell count of the produced milk of treated group 3 was significantly different than that of treatment 1 and 2 ($P \leq 0.05$), and the highest average of somatic cell count of the produced milk was for treatment 3 and lowest The average of the somatic cell count of the produced milk was related to treatment 2. The results showed that consumption of different levels of monensin in the diet did not affect the SNF, PH, MUN and milk density, and the differences were not significant ($P \leq 0.05$) **Keywords:**

Monensin, Milk production, Milk composition, MUN and Holstein cows

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