

**Effect of adding organic acids (Lactic acid and Acetic acids) to the
Diet in prod performance of laying hens.**

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ABSTRACT

This study was carried out at the poultry farm of Animal Production Dept./ College of Agriculture / University of Diyala during the period from 1/9/2015 until 1/1/2016 , in order to study the effect of adding organic acids (lactic acid and acetic acid) individually in the diets of laying hens and the impact on the productive performance of the chicken.

This study used 150 hen laying Lohmann brown breed aged 18 weeks, and weighed individually and distributed randomly at the age of 19 a week on five treatment with three replicates per treatment (10 chickens / replicate) The treatments : first: control and was free from added, the second and third included add 0.2%, 0.4% of lactic acid sequentially, and the fourth and fifth has included the addition of 0.2, 0.4% of the Acetic acid respectively.

As well as the results showed the superiority of supplementation of organic acids compared with control group (non-added) in all productive traits through most productive periods (19-34 weeks), as it outperformed added treatments was significantly ($P < 0.01$) in the rate of egg production (% Hen day production) and the weight and mass of eggs. As moral differences between the treatment and comparison coefficients were not added when calculating feed rates of the consumer in terms of production and more at the expense of the overall rate. While the birds showed all supplementation on treatments, significant difference ($P < 0.01$) in converting food into eggs weight coefficient.

Key words: organic acids, layer hens, recipes productivity