

ABSTRACT

RIDHO, IBNU Z. A. Effect Lemon Juice (*Citrus aurantifolia* Swingle) in Drinking Water to Increasing Broiler Carcass Chicken. Supervised by Rosa Tri Hertamawati, and Erfan Kustiawan.

The aim of this research was to determinate the effect of lemon juice in drinking water to improve the percentage of carcass and lower abdominal fat broiler chicken. The method that used in this research is Complete Randomized Design (CRD). Treatment used are juice lemon with four treatment, they use P0 (control without lemon juice); P1 (1 ml/liters of water); P2 (2 ml/liters of water); P3 (3 ml/liters water). Lemon juice of each treatment is added in drinking water and mixed until homogenous. Each treatment has five replications and each experimental unit consists of five chickens. The experiment object is day old chick (DOC) 1 day to 35 days. The parameters of this research are feed consumption, water consumption, percentage of abdominal fat, percentage of broiler chicken carcass. Data was collected day of 21, 28, and 35. The result of this research shows that the supplementing of juice lemon in broiler chicken drinking water from level 1 ml/l until 3 ml/l were not significant difference to feed consumption, water consumption, percentage fat abdominal, and percentage carcass broiler ($P > 0,05$).

Keywords: lemon juice, broiler chicken, carcass, abdominal fat.