ABSTRACT

Ariska, Rully D. 2012. Effect of fermented molasses mixture onggok on Feed Consumption, Feed Conversion and Body Weight Gain of Broiler Added. Thesis Department of Biology, Faculty of Science and Technology, State Islamic University (UIN) Maulana Malik Ibrahim Malang. Advisor I: Dr. Retno Susilowati, M.Si. Advisor II: Dr. Munirul Abidin, M.Ag.

Key words: Broiler, onggok mixture and fermented molasses, feed consumption, feed conversion, body weight gain.

Community needs for the consumption of meat as a source of animal protein in Indonesia is still very low because the price is relatively expensive. Broiler chickens is one of the selected alternative in order to meet the needs of animal protein. In order to achieve the standard broiler production, feed required to have good quality and quantity. Poultry industry experienced downturn because prices are more expensive feed ingredients because they have to import. One alternative that can be used as animal feed ingredients are dried onggok but chicken feed is still prevalent because of the low protein content (1.72%) and high content of crude fiber (14.80%). Efforts to increase the protein content of the biologically onggok done fermenting. The results will be even better if the fermentation by adding molasses which has a high energy content because it contains glucose, protein 3.1% of media is appropriate for the life of microorganisms. This research aims to determine the effect of the use onggok and fermented molasses on feed consumption, feed conversion and broiler body weight gain.

This research is experimental by using Complete Randomized Design (RAL) with 4 treatment 5 replicates. Data were analyzed by One Way Anova, if there is influence continued with the Smallest Real Differences test (BNT) 0.05. The treatment used is a mixture of fermented molasses onggok and as much as 0%, 5%, 10% and 15% in the ration. Calculation of food remains done every day to determine feed consumption, body weight gain was calculated every week and feed conversion was calculated at the end of the research.

The results of research showed that the use of fermented molasses mixture onggok and significant effect (P <5%) on feed consumption, feed conversion and broiler body weight gain. Average of feed consumption in treatment P0, P1, P2 and P3 is 2292; 2503; 2408, and 2055 g/week. Average feed conversion in treatment P0, P1, P2 and P3 is 1.71: 1.96: 2.32 and 3.00. Mean body weight gain in treatment P0, P1, P2 and P3 are 1334.3: 1277.2: 1046.4 and 693 g/week. Onggok molasses mixture and as much as 10% in the ration can improve feed consumption, and a mixture of molasses onggok and 5% can increase body weight gain and improve feed conversion of broilers.