

**THE EFFECT OF COMMERCIAL FEED SUBSTITUTION BY KELOR  
(*Moringa oleifera*) LEAF FLOUR TOWARD WEIGHT GAIN  
AND FEED CONVERSION OF BROILER**

**Haydy Layli Orilina**

**ABSTRACT**

The purpose of the research was to determine the effect of commercial feed substitution by kelor (*Moringa oleifera*) leaf flour toward weight gain and feed conversion of broiler. Twenty broilers strain *Cobb* 22 days old were divided into four treatments and five replication. This research used Completely Randomized Design method. P0 as control (100% commercial feed BR1<sup>®</sup>), P1 (95% commercial feed BR1<sup>®</sup> + 5% kelor leaf flour), P2 (90% commercial feed BR1<sup>®</sup> + 10% kelor leaf flour), and P3 (85% commercial feed BR1<sup>®</sup> + 15% kelor leaf flour). The treatments were spent two weeks to reassess the data. Data was analyzed using ANOVA, if the significant difference in any treatments was found then continued with Duncan's Multiple Range Test. The result of average weight gain of P0 was equal to  $501.20^b \pm 76.18$ , P1 was equal to  $264.20^a \pm 41.05$ , P2 was equal to  $178.80^a \pm 79.00$ , and P3 was equal to  $175.40^a \pm 95.20$ . The result of feed conversion of P0 was equal to  $1.60^a \pm 0.31$ , P1 was equal to  $1.66^a \pm 0.20$ , P2 was equal to  $1.75^a \pm 0.15$ , and P3 was equal to  $1.82^a \pm 0.20$ . The result showed that kelor leaf flour decreased weight gain and was not significantly different in feed conversion.

**Keywords:** kelor leaf flour, broiler, weight gain, feed conversion.