

**SUBSTITUTION OF COMMERCIAL FEED WITH NONI LEAF
FLOUR (*Morinda citrifolia*) FERMENTATION AGAINST
THE PERFORMANCE OF MALE LAYING HENS**

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ABSTRACT

This study aims to determine the effect of commercial feed substitution with fermented noni leaf flour on the performance of male laying hens. The number of laying hens used is 200. The study was conducted from the age of 15 to 56 days. This research method uses a Completely Randomized Design with five treatments consisting of P0 (commercial feed), P1 (96% commercial feed + 4% fermented noni leaf powder), P2 (95% commercial feed + 5% fermented noni leaf powder), P3 (94% commercial feed + 6% fermented noni leaf flour), P4 (93% commercial feed + 7% fermented noni leaf flour) and four replications. Data analysis using ANOVA. The results showed that the substitution of noni fermented noni leaves had a very significant effect ($P < 0.01$) on feed consumption, body weight gain, and feed conversion. The treatment of fermented noni leaf meal showed the best results in P3 (6% fermented noni leaf flour) with an average feed consumption of 1729.35 grams / tail, body weight gain of 753.25 and the result of feed conversion was 2.213. In the maintenance of male laying hens, it is recommended the provision of 6% fermented noni leaf flour, because it can help breeders in improving the performance of male laying hens.

Keywords: Male Laying Hans, Fermented Noni Leaf flour, Aspergillus Niger, Performance