

Using Lamtoro Leaf Meal (*Leucaena leucocephala*) Fermentation in Rations on The Early Growth of Layer Quail (*Coturnix-Coturnix japonica*)

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ABSTRACT

The purpose of this study was to determine the effect of adding lamtoro leaf flour fermented with EM-4 on growth in the early phase of laying quail. This research was carried out from June to July 2022 which took place at Perum Kalisat Permai B: 15 Jember. This study uses the RAL method. If there is a significant difference ($P < 0.05$) then proceed with the Duncan Multiple Range Test (DMRT). This study used 5 treatments with 4 repetitions to obtain 20 experimental units. The percentage of the use of fermented lamtoro leaf flour in each treatment was P0 = 0% for fermented lamtoro leaf flour; P1 = 2% administration of fermented lamtoro leaf flour; P2 = 4% administration of fermented lamtoro leaf flour; P3 = 6% administration of fermented lamtoro leaf flour; and P4 = 8% administration of fermented lamtoro leaf flour. The results showed that there was a significant difference ($P < 0.05$) by giving fermented lamtoro leaf flour to feed consumption. However, there was no significant difference in body weight gain and quail feed conversion values. The results of the calculation of Income Over Feed Cost (IOFC) get a minus value because the cost of feed is higher than income. The conclusion of this study is that the administration of fermented lamtoro leaf powder does not interfere with quail performance in the early growth phase.

Keyword: *lamtoro leaf flour, fermentation, performance, laying quail*