

**THE EFFECT OF RICE BRAN WITH PHYTASE ENZYME AND
LEMURU FISH OIL SUPPLEMENTATION ON THE DIGESTIBILITY
OF CALCIUM AND PHOSPHOR IN LAYER**

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ABSTRACT

This research was aimed to determine the effect of rice bran with phytase enzyme and lemuru fish oil supplementation on the digestibility of calcium (Ca) and phosphorus (P) in layer. This research was an experimental research. This research was using 24 ISA Brown layers aged 48 weeks. P0 group was as the negative control and P1 group was as the positive control. P0 group was not given rice bran with phytase enzyme and lemuru fish supplementation. P1 group was given 2% of lemuru fish supplementation without rice bran with phytase enzyme substitution. P2 until P5 were given rice bran with phytase enzyme as substitution with different percentage (5%, 10%, 15%, and 20%) and supplemented with 2% of lemuru fish oil. The data was taken in the one last week of the research. The sample of the data was taken from the feed consumption and the dry excretion weight. The data was analyzed using Analysis of Variant (ANOVA) and Duncan as the Pos-Hoc Test. The result of the research was showing that the substitution of rice bran with phytase enzyme could increase the digestibility of calcium (Ca) and phosphorus (P).

Keyword: rice bran, phytase enzyme, calcium (Ca) and phosphorus (P) digestibility, layer.