

THE POTENCY OF RICE BRAN THAT FERMENTED BY PHYTASE ENZYME IN BASAL FEED TO THE TOTAL BLOOD CHOLESTEROL LEVEL OF LAYING HEN

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ABSTRACT

The aim of this research is to know the potential of rice bran fermented by the phytase in enzyme basal feed to the total blood cholesterol level of laying hen. This research use an experimental method in vivo with a completely randomized design consisting of six treatments and four replications in each treatment. The experimental animals used 24 48-week-old female laying hen strain Isa Brown. The treatment given was basal feed substituted with fermented rice bran with phytase enzyme and 2% lemuru fish oil supplementation. In this research the amount of enzyme fermented rice bran substituted on basal feed was: treatment P0 (-) (0%), P0 (+) (0%), P1 (5%), P2 (10%) P3 (15%) and P4 (20%). The results of the statistical analysis showed that there are no significant differences ($p > 0.05$) on total blood cholesterol levels in all treatments. The conclusion of the research is that rice bran fermented with phytase enzymes temds to potential to decrease total blood cholesterol levels in laying hen.

Keyword : Phytase enzyme, rice bran , blood cholesterol