

***THE EFFECT OF ADDING EDAMAME SOYBEAN PROTEIN CONCENTRATE
(Glycine max (L) Merrill) AND LEMURU OIL (Sardinella lemuru) TO FEED ON
THE BLOOD LIPID PROFILE OF LAYING DUCKS***

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ABSTRACT

This study aims to determine the effect of adding Konsentrat protein kedelai edamame e and lemuru fish oil in the feed on the blood lipids of laying ducks (Anas platyrhynchos domesticus) and to identify the best level for the blood lipids of these ducks. The study used a Completely Randomized Design (CRD) and Analysis of Variance (ANOVA), involving 75 ducks divided into 5 treatments with 5 replications. The treatment levels of Konsentrat protein kedelai edamame e and lemuru fish oil are as follows: P0 = no treatment, P1 = 1% lemuru fish oil and 0.5% Konsentrat protein kedelai edamame e, P2 = 1.5% lemuru fish oil and 0.5% Konsentrat protein kedelai edamame e, P3 = 1% lemuru fish oil and 1% Konsentrat protein kedelai edamame e, and P4 = 1.5% lemuru fish oil and 1% Konsentrat protein kedelai edamame e. Data were analyzed using ANOVA to determine if there were significant differences ($P > 0.05$) among the treatments. The results showed that the addition of Konsentrat protein kedelai edamame e and lemuru fish oil significantly affected the reduction in triglyceride, LDL, and cholesterol levels. However, there was no significant effect on the increase in HDL levels in the blood of the laying ducks.

Keywords: *laying ducks, edamame Soy Protein Concentrat, Lemuru fish oil, blood fat of laying ducks*