PENGARUH PENGGUNAAN CAMPURAN LIMBAH SAWIT DAN DEDAK PADI YANG DIFERMENTASI DENGAN JAMUR TIRAM PUTIH (*Pleurotus ostreatus*) TERHADAP PROFIL LIPID SERUM DARAH PUYUH PETELUR

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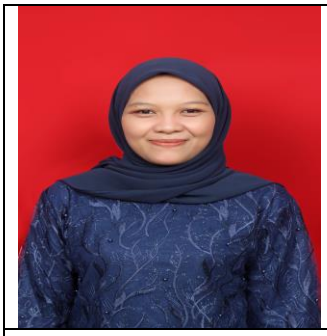

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THE EFFECT OF USING A MIXTURE OF PALM WASTE AND RICE BRAN IN FERMENTATION WITH WHITE OYSTER MUSHROOM (*Pleurotus ostreatus*) ON LAYER'S BLOOD LIPID PROFILE

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ABSTRACT

This study aims to determine the limitations and how the effect of using a mixture of palm oil waste and fermented rice bran (POWRBF) with *Pleurotus ostreatus* on the lipid profile of laying quail blood serum. This study used 200 quail (*Coturnix-coturnix japonica*) started at the age of 20 weeks with 60% egg production. The method used was an experimental method with a completely randomized design with 5 treatments (0%, 6%, 12%, 18%, and 24% LSDPF with *Pleurotus ostreatus*) and 4 replications. The observed variables were total cholesterol (mg/ dL), HDL (mg/dL), triglycerides (mg / dL), LDL (mg/dL) serum of laying quail blood. The results of the analysis of diversity showed that the use of a mixture of palm oil waste and rice bran fermented with *Pleurotus ostreatus* in the ration had a significant effect (P <0, 05) on total cholesterol and HDL, and had a very significant effect (P <0.01) on LDL and triglycerides in laying quail blood serum. Based on the results of the study, it can be concluded that the use of a mixture of palm oil waste and rice bran fermented with *Pleuraotus ostreatus* up to a level of 24% can reduce total cholesterol, triglycerides and LDL and increase the HDL of quail blood serum. In this condition, the total cholesterol is 132.75 mg / dL, 56.97 mg / dL HDL, 406.75 mg / dL triglycerides, and 65.75 mg / dL LDL.

Keywords : palm waste, *Pleurotus ostreatus*, quail, blood serum lipid profile

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