

EFFECT OF SUBSTITUTION OF GOROHO BANANA (*Musa acuminata* sp.) STEM MEAL FERMENTED WITH *Trichoderma viridae* IN RATION ON BLOOD LIPID PROFILES AND MEAT QUALITY OF BROILER CHICKEN

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Abstract

The purpose of this research was to determine the substitution of gorocho banana (*Musa acuminata*, sp) stem meal fermented with *Trichoderma viridae* on blood lipid profiles and meat quality of broiler chicken. One hundred and twenty day old chick CP 707 divided into 20 unit cages, each unit consisted of 6 chickens. Completely Randomized Design (CRD) was used in this research with 4 treatments and 5 replications. The treatments were: R0 = 100% corn without gorocho banana stem meal fermented, R1 = 95% corn + 5% gorocho banana stem meal fermented, R2 = 90% corn + 10% gorocho banana stem meal fermented and R3 = 85% corn + 15% gorocho banana stem meal fermented. Parameter measured were blood lipid profile (Triglyceride, total cholesterol, HDL, LDL) and meat cholesterol. The results showed that substitution of gorocho banana stem meal fermented had a significant effect ($P < 0.05$) on a decreased in blood triglyceride, blood cholesterol and meat cholesterol. R3 has significant difference ($P < 0.05$) lowest compared to the other treatments (R0, R1 and R2). On the other hand there were no significant effect ($P > 0.05$) on blood HDL and LDL among the treatments. It can be concluded that gorocho banana (*Musa acuminata*, sp) stem meal fermented with *Trichoderma viridae* can be substituted up to 15% corn meal in ration which improved the meat quality.

Key words: gorocho banana stem, *trichoderma viridae* fermented, blood lipid, meat cholesterol, broiler chicken

INTRODUCTION

Gorocho banana (*Musa acuminata*, sp) is one of the typical types of bananas which is very popular with consumers, especially in the area of the city of Manado and Minahasa so many places selling fried foods that use it because it has a distinctive taste and is consumed by analysis shows that the banana gorocho stem (*Musa acuminata*, sp) contains protein (2.53%), fat (1.49%), ash (12.93%) and crude fiber (23.48%) and gross energy 3723 kcal (Laboratory analysis, 2012). Efforts to improve nutrition have been carried out through fermentation with a protein yield of 4.86% crude fiber 22.03, Fat 0.94, Ca 0.42, P 0.18 and Gross

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