

**THE UTILIZATION OF FERMENTED RUMEN CONTENT MEAL
ADDED WITH *Spirulina sp.* AS RICE BRAN SUBSTITUTION ON
THE CARCASS AND ABDOMINAL FAT PERCENTAGE OF
MALE BROILER CHICKENS**

Mona Rucita Larasati

ABSTRACT

The purpose of this study was to know the amount of fermented rumen content meal added with *Spirulina sp.* which could substitute rice bran as broiler chicken feed. The measured parameters were carcass and abdominal fat percentage. This research used twenty male broiler chickens which were raised from one day old until five weeks old. The treatment feed was given when the chickens reached finisher stage. There were five treatments with four repetitions in each treatment. Those five treatments were, T0- (100% feed), T0+ (100% feed + 1% *Spirulina sp.*), T1 (95% feed + 5% fermented RCM + 1% *Spirulina sp.*), T2 (90% feed + 10% fermented RCM + 1% *Spirulina sp.*), T3 (85% feed + 15% fermented RCM + 1% *Spirulina sp.*). The research design used Complete Randomized Design. The data was analysed with Analysis of Variance Statistic Method and would be analysed further using Duncan's Multiple Range Test if there were any significant differences among the treatments. The result showed that there was no significant difference ($p>0.05$) in the carcass percentage but had the significant difference ($p<0.05$) in the abdominal fat percentage. It could be concluded that fermented rumen content meal added with *Spirulina sp.* did not influence the carcass percentage but decreased the abdominal fat percentage from 0.97% (T0-) to 0.25% (T3).

Keywords: Fermented rumen content meal, *Spirulina sp.*, carcass, abdominal fat percentage, male broiler chickens.