

**THE UTILIZATION OF FERMENTED RUMEN CONTENT MEAL ADDED
WITH *Spirulina* sp. AS RICE BRAN SUBSTITUTION ON
THE TOTAL CHOLESTEROL SERUM AND TRIGLYCERIDES
OF MALE BROILER CHICKEN**

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ABSTRACT

The purpose of this study was to know the amount of fermented rumen content meal added with *Spirulina* sp substitute rice bran as broiler chicken feed. The measured parameters were total cholesterol serum and triglycerides. This research used 20 male broiler chickens which were raised from one day old until five weeks old. There were five treatments with four repetitions in each treatment. Those five treatments were, T0- (Feed), T0+ (Feed + 1% *Spirulina* sp), T1 (Feed + 5% fermented RCM and 1% *Spirulina* sp), T2 (Feed + 10% fermented RCM + 1% *Spirulina* sp), T3 (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 were significant differences ($p < 0.05$) in the total cholesterol serum and triglycerides. It could be concluded that fermented rumen content meal added with *Spirulina* sp. was significant decreasing the total cholesterol serum and triglycerides on male broiler chicken.

Keywords: Fermented rumen content meal, *Spirulina* sp, Total cholesterol, Triglycerides, Male broiler chickens.