COMBINATION OF *Spirulina* AND FERMENTED RUMEN CONTENT MEAL AS SUBSTITUTION IN FEED TOWARD FEED CONSUMPTION, WEIGHT INCREASE AND FEED CONVERSION OF MALE BROILER

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ABSTRACT

The aim of this research was to know the effect of *Spirulina* combination and fermented rumen content meal as substitution in feed toward consumption, weight increase and feed conversion of male broiler. This research used 20 samples of 3 week old male broiler strain *Cobb 500*. The research used Completely Randomized Design Method. The samples was classified into five group and four replication. The treated samples was P0 (BR2® 100%), P1 (BR2® 90% + TIR 10% fermented + *Spirulina* 0%), P2 (BR2® 90% + TIR 10% fermented + *Spirulina* 0,5%), P3 (BR2® 90% + TIR 10% fermented + *Spirulina* 1%) and P4 (BR2® 90% + TIR 10% fermentasi + *Spirulina* 1,5%). The time of experiment was two weeks in finisher period. The result were statistically analyzed through analysis of variance (ANOVA). If the significant difference were found among each treatment, analysis would be continued by Duncan’s Multiple Range Test. The result of research indicated that combination of *Spirulina* and fermented rumen content meal as substitution in feed was significantly difference (p<0,05) increasing feed consumption but it was not significantly difference (p>0,05) with control from samples that treated to weight increase and feed conversion.

Key words: *Spirulina*, rumen content meal, feed consumption, weight increase, feed conversion, broiler