THE USE OF *Spirulina* IN SUBSTITUTION OF RUMEN CONTENT MEAL WHICH IS FERMENTED IN FEED ON CARCASS AND ABDOMINAL FAT PERCENTAGE OF MALE BROILER

Mia Anjar Sari

ABSTRACT

The aim of this study was to explore the potency of *Spirulina* in substitution of rumen content meal which is fermented in feed for male broiler. The measured parameters were the carcass and abdominal fat percentage. The experiment animals were twenty male broiler, divided into five treatments. Five different food mixtures were, P0 was BR2® 100%; P1 was BR2® 90% + fermented rumen content meal 10% + *Spirulina* 0%; P2 was BR2® 90% + fermented rumen content meal 10% + *Spirulina* 0.5%; P3 was BR2® 90% + fermented rumen content meal 10% + *Spirulina* 1%; P4 was BR2® 90% + fermented rumen content meal 10% + *Spirulina* 1.5%. Experimental design was used completely randomized design with five treatments and four replications. The data were analyzed using the Analysis of Variance Statistic Method and continued with The Duncan’s Multiple Range Test. The result showed that the use of *Spirulina* in substitution of rumen content meal which is fermented in feed with doses of 0.5; 1.0 and 1.5% was not increase the carcass percentage but decrease the abdominal fat percentage.

Key words: *Spirulina*, rumen content waste, carcass, abdominal fat, broiler.