

THE EFFECT OF NATURAL PROBIOTIC GIVING WITH FERMENTATION PROCESS TO CRUDE FIBER AND CRUDE PROTEIN CONTENT'S OF CORN SHIELD

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ABSTRACT

This research was aimed to identify the effect and the effective dose of natural probiotic to crude fiber and crude protein content of corn shield with fermentation process as ruminant's feed alternative in the dry season. There were four treatments (P0, P1, P2 and P3) with five replicates. P0 (control) was the mix of corn shield and natural probiotic 0%, P1 was the mix of corn shield and natural probiotic 2%, P2 was the mix of corn shield and natural probiotic 4%, and P3 was the mix of corn shield and natural probiotic 6%. Each treatment needed 200 grams dried corn shield in 2-5 cm cube. Proximate analysis was done to investigate its content. The obtained data were analyzed with the analysis of variance method and if there were differences between the treatments, The Duncan's multiple range 5% test was used. The result showed that natural probiotic could affect that being showed with decreases of the crude fiber and increases of the crude protein of corn shield with fermentation process. It could be concluded that natural probiotic with 6% of dose was effective and efficient for corn shield fermentation product.

Key words : corn shield, natural probiotic, crude fiber, protein