

HEMICELLULOSE DIGESTIBILITY AND DIGESTIBLE VALUE IN DAIRY CATTLE FED A COMPLETE FEED

Titin Yuliaty

ABSTRACT

The aim of this research was to determine the effect of complete feed on the hemicellulose digestibility and digestible value by dairy cattle. The research was conducted on ten female Friesian Holstein dairy cattle five until twelve years old and two until six month lactation period. Research design was completely randomized design with five treatments and seven replications. Five treatment groups were P0 as a controlled feed, P1, P2, P3 and P4 were complete feed which have different composition. Feed and fecal samples were analyzed by *Van Soest* method. The data were analyzed by Analysis of Variant (ANOVA) method, and for different mean between the treatments were tested by Duncan's multiple range test. The software that was used to analyze the data is Windows Statistical Product and Service Solution 20 (SPSS 20). The results of this research showed that various complete feed had different effects on the hemicellulose digestibility and digestible value. The result of hemicellulose digestibility value showed that P2 had the highest hemicellulose digestibility value and P1 had the lowest hemicellulose digestibility value. The result of digestible hemicellulose value also showed that P2 had the highest digestible hemicellulose value and P1 had the lowest hemicellulose digestible value.

Keywords : complete feed, hemicellulose digestibility, digestible hemicellulose,
dairy cattle