Role of Probiotics in Improving Ration Digestibility Based on Palm Oil Industry by Product on Etawa Cross Bred Dairy Goat

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Abstract

The research objective was to determine the role of probiotics in improving digestibility of ration’s etawa cross bred dairy goat lactation based on palm oil industrial byproducts. Palm oil Industrial byproducts used was palm kernel cake (PKC) and palm oil sludge (POS) with additional materials as corn, bran, coconut meal and minerals. Research using a completely randomized design (CRD) with 6 treatments and 4 replications. The treatment is administered dose of probiotics, namely, A). 0 g (without probiotics), B). 100 g, C). 125 g, D). 150 g, E). 175 g and F). 200 g. This research was in-vitro test using Tilley and Terry methode (1969). Parameters measured were Digestibility of Dry Matter Digestibility (DDM), Digestibility of Organic Matter (DOM) and Digestibility of Crude Protein (DCP). The results showed that probiotics supplementation can improve DOM on average by 42.96%, DDM average of 31.13% and increased of DCP by 39.97%.

Keywords: Probiotics, Ration digestibility, Etawa crossbred dairy goat, By producs, Palm.