Degradation Kinetics of Dry Matter and Organic Matter of Chicken Manure in Haylage Complete Feed

Abstrak:

The aim of this research is to investigate effects of using different level of chicken manure in haylage complete feed to evaluate degradation value by in-sacco method. Three different proportion of chicken manure in the same proportion of maize stalk 40% and concentrate 60% on dry matter basis (crude protein 12%), R1, maize stalk 40% : concentrate 60% (0% manure), R2, maize stalk 40% : concentrate 60% (5% manure), R3, maize stalk 40% : concentrate 60% (10% manure). Concentrate are consist of rice polishing, wheat pollard, coconut cake, kapok seed cake, waste of cassava, mollases, urea and mineral. Nylon bag technique was used to determine the dry matter (DM), organic matter (OM) degradation from the rumen of 3 rumen fistullated sheep. Nylon bags were suspended in the rumen. They were removed after 2, 4, 8, 16, 24, 48, 72 and 96 hr incubation, the residues were then analyzed for DM, OM contents. The a, b, c values were analyzed by Randomized Block Design. Variable measured was value a, value b and value c. The using haylage complete feed of maize stalk and manure have prospect to be used as nitrogen source in the rumen for the growth of microbe rumen.

Keyword:

Haylage, chicken manure, maize stalk, rumen degradation