ABSTRACT

THE EFFECT OF THE VARIOUS STARTER ADDITION TOWARD THE PHYSICAL QUALITY OF SILAGE AND pH OF SILAGE DIET BASED ON AGRICULTURAL WASTE

By

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Objective of the research was to study the effect of using starter on silage making. Four treatments with 3 replications were applied in a completely randomized design. The treatments were R0 = Basal diet; R1 = R0 + EM-4 4%; R2 = R0 + Enriched EM-4 4%; and R3 = R0 + rumen fluid 4%. Results of the experiment showed that EM-4, Enriched EM-4, and rumen fluid significantly affect the color, texture, pH, as well as the smell of the silage. The best quality of silage was achieved by using EM-4 4% and using rumen fluid 4% as starter in silage making.

Keywords: Em-4, Em-4 culture 4%, rumen liquid, silage, the physical quality of the Silage