

ABSTRACT

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

By

Depo Kurniawan

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