



## NUTRITIONAL QUALITY OF SILAGE COCOA PEEL (*Theobroma cacao* L) WITH DIFFERENT ADDITIONAL ADDITIVE INGREDIENTS

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### ABSTRACT

*Cocoa peel are plantation waste produced by cocoa plants that can be used as ruminants feed. Cocoa peel has a high crude fiber content of 38.54%. The improvement of nutrient content . The improvement of nutrient content can be done with silage feed processing technology. The purpose of this research is to know the nutritional quality of silage cocoa peel with different additive. The study used a complete randomized design (RAL) with 4 treatments namely and 5 replication P1 (addition without additive), P2 ( addition 5% molases), P3 (addition 5% urea) and P4 (addition 5% molases + 5% urea). The parameters that being observed includes of dry matter (DM %), crude fiber (CF %), crude protein (CP %), extract eter (EE% ), Ash %, and nitrogen free extract (NFE% ). Differences between treatments were tested further with Duncan's Multiple Range Test. The result of this research is different additive have significantly influenced ( $P < 0,01$ ) to the content of dry matter (DM %), Crude protein (CP % ), Crude Fat (CF %), extract eter (EE %), Ash % and nitrogen free extract (NFE%). The conclusion of this study is that different additive materials can improve the quality of silage cocoa peel nutrition with the best treatment found in the treatment of P4 (addition 5% molases + 5% urea) ) can because it lower of nutritional value of extract eter (EE), Ash and raise nitrogen free extrct (NFE).*

**Keywords :** *silage, nutrition, cocoa peel.*

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