

**THE BLOOD SERUM CHOLESTEROL OF SHEEP WHICH FED WITH
SILAGE USING STARTER *LACTOBACILLUS SPP.* AND
*SACCHAROMYCES CEREVISIAE***

Roma Indrayani

ABSTRACT

This research was aimed to know the effect of feeding elephant grass and rice straw silage which is inoculated *Lactobacillus spp.*, *Saccharomyces cerevisiae* and combination both of them, at the sheep towards the blood cholesterol serum of sheep. Twelve sheep as trial animal, is divided to be four treatment groups as follows, (P0) control, (P1) *Lactobacillus spp.* 3%, (P2) *Saccharomyces cerevisiae* 1%, (P3) *Lactobacillus spp.* 3% and *Saccharomyces cerevisiae* 1%. The raw material of silage are elephant grass, rice straw and concentrate which has proportion 35 kg, 35kg and 30kg. They are also added with molases. The material of silage which have been given starter, are fermented in the drum that is closed fast for three week. Silage is exposed, then, it is given to sheep for three week in treatment time. At last research, sheep blood is taken, then, it is done examination towards cholesterol amount by using CHOD-PAP method. This research is composed based on random blueprint that is complete with treatment and three repetitions. Next, the data which is got is analyzed by using ANOVA to know the effect between those treatments. If there is obvious difference, it will done BNT test. The result of research shows that there is no significant difference toward treatment given ($P>0,05$).

Key words : silage, cholesterol, starter, *Lactobacillus*, *Saccharomyces*.