

THE POTENTIAL OF *Actinobacillus sp.* ML-08 AS STARTER IN CRUDE PROTEIN AND ORGANIC MATTER CONTENT OF FERMENTED ONGGOK

Putri Anggita Paulina Tamba

ABSTRACT

Onggok (sludge of cassava) is potential to be animal feed because of the high carbohydrate content. But, the other nutrient contents were low. Fermentation was needed to solve this problem. This study was aimed to prove the potency of *Actinobacillus sp.* ML-08 on increasing crude protein and organic matter content of fermented onggok. The research design used is completely randomized design. There were six treatments: P0: Onggok only, P1: Onggok + 2% Molasses, P2: Onggok + 5% *Actinobacillus sp.* ML-08 + 2% Molasses, P3: Onggok + 10% *Actinobacillus sp.* ML-08 + 2% Molasses, P4: Onggok + 15% *Actinobacillus sp.* ML-08 + 2% Molasses, P5: Onggok + 20% *Actinobacillus sp.* ML-08 + 2% Molasses. Proximate Analysis was done after 7 days of fermentation. The data got from it was analyzed by Analysis of Variance (ANOVA) and continued by Duncan's Multiple Range Test. Research result was showed significant different ($p < 0.05$). The highest concentration of crude protein content is in P4 showed 6.1241% and the highest concentration of organic matter showed 67.7686% in P5 based on partial dry matter. The conclusion of this research is *Actinobacillus sp.* ML-08 can increase crude protein and organic matter in onggok.

Keywords : Onggok, *Actinobacillus sp.* ML-08, Crude Protein, Organic Matter