

# **THE NUTRIENT CONTENT OF SHOOTS SUGARCANE FERMENTED WITH MOLASSES AND UREA**

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## **ABSTRACT\*)**

The purpose of this study was to determine the nutrient content of shoots sugar cane fermented with molasses and urea. This research was conducted from 18 August to 8 September 2019 which consisted of two stages, the first is the shoots sugar cane fermentation stage carried out in Nologaten, Condong Chess, Depok, Sleman, Yogyakarta and the second stage was the analysis of nutrient content in the CV Laboratory. Pratama Bantul Chem-mix Yogyakarta. This study uses a Completely Randomized Design (CRD) of unidirectional pattern, the treatment used is consisting of P0 addition of 5% molasses (control), P1 molasses 5% + 1% urea, P2 molasses 5% + 2% urea, P3 molasses 5% + urea 3%, each repeated 3 times. The data can be analyzed by Variance Analysis (ANOVA), if there is a difference followed by Duncan's multiple range test using SPSS version 20. Variables observed were water content, crude protein, crude fat, crude fiber, ash and NFE. The results showed that the treatment using molasses and the combination of molasses with urea had a significant effect ( $P < 0.05$ ) on levels of dry matter, crude protein, crude fiber and nitrogen free extract, but had no significant effect ( $P > 0.05$ ) on crude fat content and ash content. Based on the results of research and discussion, it can be concluded that the combination of 5% molasses and 3% urea in sugarcane shoot fermentation can increase nutrient content.

Keywords : Cane Shoots, Fermentation, Molasses, Urea, Nutrient Content

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