

**KADAR NDF DAN ADF KULIT BUAH KAKAO YANG DIFERMENTASI SECARA BERTINGKAT MENGGUNAKAN *Trichoderma viride* DAN *Saccharomyces cerevisiae* (NDF and ADF Levels of Cocoa Pod Husk Gradually Fermented Using *Trichoderma viride* and *Saccharomyces cerevisiae*)**

<b>Title</b>	KADAR NDF DAN ADF KULIT BUAH KAKAO YANG DIFERMENTASI SECARA BERTINGKAT MENGGUNAKAN <i>Trichoderma viride</i> DAN <i>Saccharomyces cerevisiae</i> (NDF and ADF Levels of Cocoa Pod Husk Gradually Fermented Using <i>Trichoderma viride</i> and <i>Saccharomyces cerevisiae</i> )
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<b>Accreditation</b>	
<b>Abstract</b>	The research aimed to examine the effect of gradual fermentation using <i>Trichoderma viride</i> and <i>Saccharomyces cerevisiae</i> and its most optimal level of use on lowering NDF and ADF levels of cocoa pod husks. The experiment was conducted experimentally according to a completely randomized design (CRD) consisted of four treatments and five replications. The treatments were, R0: cocoa pod husks without fermentation, R1: cocoa pod husk fermentation ( <i>T. viride</i> 4% and <i>S. cerevisiae</i> 4%), R2: cocoa pod husk fermentation ( <i>T. viride</i> 8% and <i>S. cerevisiae</i> 8%), R3: cocoa pod husk fermentation ( <i>T. viride</i> 12% and <i>S. cerevisiae</i> 12%). Data were analyzed using analysis of variance (ANOVA) with the orthogonal polynomial test. The results showed that the gradual fermentation using <i>T. viride</i> and <i>S. cerevisiae</i> was highly significant in reducing levels of NDF and ADF of cocoa pod husks, following the equation $Y = 78.926 - 0.087X_1 - 0.092X_2 + 0.007X_3$ , ( $R^2$ ) = 93.4% and $Y = 75.274 - 5.698X_1 + 1.277X_2 - 0.073X_3$ , ( $R^2$ ) = 99.5%, respectively. In conclusion, the optimal level of using <i>T. viride</i> and <i>S. cerevisiae</i> in lowering the levels of NDF of cocoa pod husk was 9.21%, which can reduce the NDF level as much as 3.98%, while the optimal level of using <i>T. viride</i> and <i>S. cerevisiae</i> in lowering the levels of NDF of cocoa pod husks was 3.01%, which can decrease the ADF level as much as 10.01%.
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