

# **The Effect of Variations in the Combination of Fruit and Vegetable Waste Against Ecoenzyme Quality**

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## **ABSTRACT**

Ecoenzymes play an important role in environmental management, this ecoenzyme was first introduced in Thailand, but in Indonesia research on ecoenzymes is still limited. This study aims to determine the effect of variations in fruit and vegetable combinations on the quality of ecoenzymes as fertilizer, and to determine the effect of variations in the concentration of ecoenzymes from various combinations of fruits and vegetables on the quality of ecoenzymes as fertilizers. This research is an experimental study with independent variables: variations in the combination of fruit peel waste and vegetable waste and variations in the concentration of ecoenzymes from various combinations of fruit and vegetable waste. The dependent variables are: Color, odor, pH, and turbidity of the enzyme and mustard growth data which includes plant height and number of mustard leaves. To obtain the results of this study, the data on plant height and number of mustard leaves were analyzed by factorial ANOVA test. The results of the ANOVA test that had an effect or were significantly different were continued with the DMRT (Duncan Multiple Range Test) test with a significance level of 5% to determine the differences between treatments. Meanwhile, color and odor were analyzed descriptively. The results of this study cannot be disclosed according to the purpose because the PPKM has caused this research to be stopped waiting for permission to enter the laboratory again which can only be carried out at the end of early September, so the results of the analysis related to the quality of ecoenzymes as fertilizers have not yet been completed at the Yogyakarta Agricultural Crop Study Center. In addition, to test the quality of ecoenzymes as fertilizer, the fertilized plants are only 15 days old (mustard) so they have to wait another 15 days). These results will later be published in the journal Sinta 1 or 2.

Kata Kunci: *ecoenzyme, fruit and vegetable waste, quality*