

THE EFFECT OF ADDING KAFFIR LIME LEAVES ON THE FERMENTATION QUALITY OF GOLDEN APPLE SNAIL EXTRACT AS LIQUID ORGANIC FERTILIZER

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ABSTRACT

The objective of this research was to determine the effect of adding kaffir lime leaves on the fermentation quality of golden apple snail extract as a liquid organic fertilizer. The research titled "The Effect of Adding Kaffir Lime Leaves on the Fermentation Quality of Golden Apple Snail Extract as Liquid Organic Fertilizer" was conducted in July 2024 to October 2024 at the field laboratory of Politeknik Negeri Jember. This study used a Non-Factorial Randomized Complete Block Design (RCBD) consisting of four treatments, namely: P1 – without kaffir lime leaves (control), P2 – addition of 20 grams of kaffir lime leaves, P3 – addition of 100 grams, and P4 – addition of 200 grams of kaffir lime leaves. The data obtained were analyzed using analysis of variance (ANOVA) and followed by a Least Significant Difference (LSD) test at a 5% significance level. The results showed that the addition of kaffir lime leaves had no significant effect on temperature, TDS, EC, and pH parameters. The best treatment was P4, which involved the addition of 200 grams of kaffir lime leaves. The addition of kaffir lime leaves was effective in reducing unpleasant odors in the liquid organic fertilizer.

Keywords: *Kaffir lime leaves, golden apple snail, liquid organic fertilizer*