Effect of Cow Urine Concentration and Number of Cutting Internodes on Vanilli Growth (Vanillia planifolia andrews.)
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ABSTRACT

Vanilli is one of the herb plants which has high economic value. Application of cow urine as a nature plant growth regulator can accelerate root growth. Vanilli can grow with cutting, the cutting can use one, two, and three internodes. This research aims to determine the concentration of cow urine, the number of internodes and interaction between these factors on Vanilli growth. The research was conducted from March to July 2020 in a seedling field at the State Polytechnic of Jember. The experiments used a randomized complete block design repeated three times. The first factor was the concentration of cow urine, with levels K1 (5%), K2 (10%), and K3 (15%). The second factor was the number of internodes, with levels R1 (one), R2 (two), and R3 (three). The data was analyzed using Analysis of Variance (ANOVA) at 1% and 5% levels. The results showed that the concentration of cow urine had a significant effect on shoot length, leaf number, leaf length, leaf width, root number, and root length. The number of internodes had a significant effect on leaf number. There was no interaction effect on all of the parameters.

Keyword: Vanilli, concentration of cow urine, number of internodes.