

THE EFFECT OF GIVING NATURAL ZPT AND SOAKING TIME ON THE GROWTH OF PEPPER CUTTINGS

(*Piper nigrum* L.)

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ABSTRACT

This study aims to determine the effect of natural zpt and soaking time on the growth of pepper cuttings (*Piper nigrum* L.) . This research was conducted on the land of the Jember State Polytechnic, East Java province and was conducted on August 8, 2020 to November 7, 2021. This research was conducted using a factorial randomized block design (RAK) with two factors. The first factor consists of two levels, namely K1 = 75% onion extract, K2 = 50% moringa leaf extract, while the second factor consists of 4 levels, namely P1 = 3 hours of immersion, P2 = 6 hours of immersion, P3 = 9 hours of immersion, and P4 = 12 hours of immersion. The data obtained from the research results were analyzed using ANOVA and then further tested using the BNJ level of 5%. The parameters observed in this study were live presentation, shoot length, shoot number, stem diameter, root wet weight, root dry weight, and root volume. The results of this study showed that the combined effect of natural zpt and immersion time and the single effect of natural zpt was not significantly different in all parameters, while the single factor of immersion time had a significant effect on the parameters of shoot length for all observation times and shoot diameter at 7 MST and 9 MST.

Key words: pepper cuttings, shallot extract, moringa leaf extract, soaking time.