

***EFFECT OF ONION EXTRACT CONCENTRATION  
ON THE GROWTH OF PEPPER CUTTINGS***

***(Piper nigrum L.)***

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***ABSTRACT***

*Pepper (Piper nigrum L.) is one of the oldest and most popular spice plants in the world. Propagating pepper by cuttings takes approximately two months for root growth. One way to encourage root formation is by administering natural Growth Regulators (ZPT). This research was carried out to determine the effect of giving a concentration of shallot extract on the growth of pepper cuttings. This research was carried out from February to May 2023 at the Jember State Polytechnic land. This research was conducted using a Completely Randomized Design (CRD) which was arranged with 1 treatment factor. The factors used were various concentrations of onion extract with 5 levels of concentration treatment, K0 = 0% (control), K1 = 12.5%, K2 = 25%, K3 = 37.5%, K4 = 50%. Each treatment consisted of 4 replications, with a total of 20 units and each unit consisted of 10 cuttings. The data obtained from the test results were then analyzed using the F test (Anova). If there is a real effect then a further test is carried out using BNT at a level of 5%. Observation parameters included the percentage of live cuttings (%), shoot length (cm), number of leaves, percentage of finished cuttings (%), number of roots, root length (cm) and root volume (ml). The results of this study showed that the red onion extra concentration was very significantly different on the percentage of live cuttings at 2 Week After Planting (WAP) and shoot height at 8 WAP, when observing shoot height at 6 WAP and the number of leaves showed significantly different results, whereas for observing parameters of shoot height at 10 WAP, the percentage of cuttings So, the number of roots, root length and root volume were not significantly different for all observation parameters.*

*Keywords: Red onion extract, ZPT, Pepper Cuttings*