

***THE EFFECT OF CONCENTRATION (PGPR) (Plant Growth Promoting Rhizobacteria) OF COCOA ROOT ON THE GROWTH OF TWO VARIETIES OF COCOA SEEDS (Theobroma cacao L.)***

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***ABSTRACT***

The effect of the concentration of PGPR (Plant Growth Promoting Rhizobacteria) on the growth of cacao seeds (*Theobroma cacao* L). The first factor is K0 = 0 ml, K1 = 50 ml, K2 = 100 ml, K3 = 150 ml the second factor Variety P1 = ICCRI 03 P2 = ICRI 06 This research was conducted using a factorial randomized block design (RBD) consisting of 8 treatments . Each treatment had 3 replications with a total of 24 units and each unit consisted of 10 plants, so there were 240 seedlings arranged factorially with two treatment factors. This data was analyzed using ANOVA and then further tested using BNJ 5%. The results showed that the PGPR concentration of 150 ml / l had a significant effect on plant height, the concentration of PGPR 50 ml / l had a significant effect on the number of leaves, and the PGPR concentration of 100 ml / l had a significant effect on the number of roots, of the ICCRI 03 varieties of cacao seedlings. PGPR concentration of 100 ml / l had a significant effect on the number of roots, and the concentration of 150 ml / l had a significant effect on the wet weight of the roots of the ICCRI 06 varieties.

Key words: PGPR concentration, varieties