

**The Effect of Zpt Gibberellin Concentration on the Growth of Seedlings of
Sugar Cane (*Saccharum Officinarum* L.) Varieties Ps 862**

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ABSTRACT

Sugarcane (*Saccharum officinarum* L.) is a sugar-producing plantation. As the population increases, it will increase the need for sugarcane. The quality of sugarcane seeds is one of the most determining factors for the success of sugarcane cultivation. Where seeds are the basic capital in sugarcane cultivation, so as to increase sugar production and productivity. The bud set nursery is one of the nursery methods where this method has several advantages, namely having a uniform growth power. Good seedling growth is also influenced by several factors, including planting material, planting media, good maintenance and provision of ZPT. Various plant growth regulators (ZPT) have been known for their use, the most prominent being the aging promoting agent. The research used was a randomized block design (RBD), using one factor, namely the concentration of ZPT giberrelin which consisted of 4 treatments. The first treatment (G0) 0 ppm gibberellin, the second treatment (G1) 50 ppm gibberellin, (G2) 75 ppm gibberellin, (G3) 100 ppm gibberellin. The results showed that the concentration of 50 ppm had a very significant effect on the meter of germination and plant height and had no significant effect on the number of strands and the number of tillers.

Key words : *sugarcane seeds, zpt concentration, growth*