

**EFFECT OF VARIATION OF CONCENTRATION OF PGPR
(*Plant Growth Promoting Rhizobacteria*) SUGAR CANE ROOTS
ON THE GROWTH OF SUGARCANE BUD SET
(*Saccharum officinarum* L.) VARIETY PS 862**

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ABSTRACT

Sugarcane (*Saccharum Officinarum* L.) is the main source of commercial sugar production. Sugarcane can be one of the crops that can contribute to the national economy and a source of livelihood for millions of farmers. As a sugar cane processed product, sugar is an important commodity for the people and the Indonesian economy, both as a basic need and as a raw material for the food or beverage industry. Therefore, to increase sugarcane productivity, one of them is by giving PGPR. This study aims to determine the differences in the application of the right sugarcane root PGPR concentration variations in the application of sugarcane plants. This study was conducted using a non-factorial randomized block design method and then 5% DMRT follow-up test. The results of this study showed that the effect of varying the concentration of sugarcane root PGPR showed different results that were not significantly different on all parameters.

Keywords : PGPR, Concentration Variation, Bud Set