

**Pengaruh Dosis Mikoriza (VAM) Terhadap Pertumbuhan Awal Bibit Dua Varietas Tebu (*Saccharum officinarum* L.) Varietas SP 80-1816 Dan PS 882 Pada Tahap Aklimatisasi. *Effect of Mycorrhizal Dose (VAM) on the Early Growth of Seeds of Two Cane Varieties (Saccharum officinarum L.) in the Acclimatization Stage.* Advisor: Ir. M. Bintoro, MP and Alfarina Kardiana Sari, SP.**

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### ***ABSTRACT***

*One of the ways to increase sugar production is by increasing the quality of sugar cane seeds. The quality of sugar cane seeds before being moved to the field can be improved by adding microorganisms in the soil, namely mycorrhizae at the acclimatization stage. The purpose of this study was to determine the effect of VAM mycorrhizal doses on the initial growth of SP 80-1816 and PS 882 sugar cane seedlings at the acclimatization stage. This research was designed using a factorial randomized block design with 2 factors. The first factor is mycorrhizal dose consisting of 4 levels, namely without mycorrhizal treatment (M0), 5 grams of mycorrhizal / polybag (M1), 8 grams of mycorrhizal / polybag (M2), and 11 grams of mycorrhizal / polybag (M3). The second factor is sugar cane variety which consists of 2 levels, namely SP 80-1816 (V1) and PS 882 (V2). Each treatment combination was repeated 3 times. The results showed that the interaction between mycorrhizal doses and varieties showed no significantly in all parameters. While the single factor, mycorrhizal dose showed a very significantly in the number of tillers, but not significantly different in the parameters of plant height, number of leaves, stem diameter, wet weight, and dry weight of sugarcane seeds. The most number of tillers was shown by sugarcane seedlings that were given as much as 8 grams / polybag, which was 6.60. The dose of mycorrhizal also showed significantly in the length of root with the result that the seeds given mycorrhiza had better than those not given. The variety factor is significantly only in the plant height parameter at the age of 4 weeks after planting where Variety SP 80-1816 (V1) has the best response compared to variety PS 882 (V2).*

*Keywords : Acclimatization stage, Sugarcane seedling, VAM mycorrhizal*