

**PENGARUH KONSENTRASI PGPR (Plant Growth Promoting Rhizobacteria)  
AKAR TEBU DAN MEDIA TANAM TERHADAP PERTUMBUHAN  
TEBU (*Saccharum officinarum* L) VARIETAS PS 862**

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**ABSTRACT**

*Sugarcane plant (Sugar factory) is a type of Graminae plant or grass that is cultivated by humans as a raw material for making sugar. Because its economic value is quite high, efforts are being made to continue its production. There is a special problem in sugarcane plantations, namely low sugarcane productivity. One effort to increase sugarcane productivity is by providing PGPR to sugarcane roots. This research was conducted to determine the concentration of PGPR (Plant Growth Promoting Rhizobacteria) in sugar cane roots and planting media on the growth of PS 862 variety sugar cane plants. This research was carried out from September 2022 to March 2023 at Sruni Village, Jenggawah District, Jember Regency. This research used a factorial randomized block design (RAKF) with PGPR concentration factors and planting media consisting of 4 levels, namely (control, 100 ml/l, 200 ml/l, 300 ml/l). Planting media uses a ratio of Top Soil: Compost: Sand consisting of 3 levels, namely 1:1:1, 1:2:1 and 2:1:1. Data analysis used ANOVA followed by a further 5% BNJ test. The results showed that the PGPR concentration treatment and planting media were not significantly different in all observed parameters.*

**Keywords:** *Sugarcane, PGPR, Planting Media*