

**PENGARUH SEED TREATMENT RHIZOBAKTERI AKAR BAMBU
TERHADAP PERTUMBUHAN DAN HASIL KEDELAI (*Glycine max l.*)
VARIETAS DEMAS
(*Effect of Bamboo Root Rhizobacteria Seed Treatment on Growth and
Yield of Demas variety Soybean (Glycine max l.)*)**

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ABSTRACT

The aim of this research is to obtain the best seed immersion time in the concentration of bamboo root PGPR for the growth and yield of soybean. This research was conducted from March 2018 until July 2018 in experiment field and laboratory of Agrotechnology Faculty of Universitas Muhammadiyah Yogyakarta. The research is arranged in single factor Completely Randomized Design. Treatment of PGPR concentration and immersion time used for Soybean seed are the following: 3ml/L PGPR with immersion time of 1 hour, 6 hour, and 12 hour; and 6ml/L PGPR with immersion time of 1 hour, 6 hour, and 12 hour. The parameter observed were: PGPR bacteria, root nodulation, root development, shoot development, and yield. The research result showed that soybean seed treatment in 6ml/L PGPR for 6 hour gave significant result for shoot height and root height.

Keyword: soybean, bamboo root PGPR, immersion time.