

Uji Efektivitas Saat Pemberian dan Konsentrasi PGPR (*Plant Growth Promoting Rhizobacteria*) Terhadap Produksi dan Mutu Benih Kacang Tanah (*Arachis hypogaea* L.) (*Test The Effectivity of The Time Granting and Concentration of PGPR (*Plant Growth Promoting Rhizobacteria*) on The Production and Quality of Peanut Seeds (*Arachis hypogaea* L.)*)

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ABSTRACT

*One way to improve the production and seed quality of peanut seeds (*Arachis hypogaea* L.) is using PGPR (*Plant Growth Promoting Rhizobacteria*). This research to determine the effect of PGPR (*Plant Growth Promoting Rhizobacteria*) on the production seed and quality of peanut seeds. This research to determine the production and quality of peanut seeds with a difference time granting and PGPR concentration difference. This research was held from August to November 2016 and conducted by Randomized Block Design (RBD) with 2 factors. The first factor was the time granting of PGPR consisted of soaking time (W1), planting time (W2) and time vegetative phase (W3). The second factor was the concentration of PGPR consisted of 0 ml/l (K0), 7,5 ml/l (K1), 10 ml/l (K2), and 12,5 ml/l (K3). Parameters measured were plant height increment, average of flowering age, number of pods per plant, fresh weight of pods per plant, dry weight of pods per plant, weighing 100 grains of seed, production of dry pods per hectare, testing of Seed germination, velocity growing Seed, And simultaneity Growing Seed. The result showed that the best treatment is concentration PGPR 12.5 ml / l which give real effect until very real effect on parameters of plant height increment at the vegetative phase (15 HST sampai 30 HST), plant height increment at the formation of pods stadium (30 HST sampai 45 HST), average of flowering age, fresh weight of pods per plant, dry weight of pods per plant, weighing 100 grains of seed, and production of dry pods per hectare.*

Keywords : *peanuts, PGPR, time granting, concentration*