

Pengaruh pemberian strain nostoc GIA13a dan variasi sumber nitrogen terhadap pertumbuhan vegetatif tanaman kangkung (*ipomoea aquatica forsk.*) pada sistem hidroponik = The effect of nitrogen source variation and inoculation of nostoc sp. GIA13a on water spinach (*ipomoea aquatica forsk.*) vegetative growth using hydroponic system

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Abstrak

Penelitian yang telah dilakukan bertujuan untuk menganalisis pengaruh nitrat dan amonium serta pemberian strain Nostoc GIA13a terhadap pertumbuhan vegetatif tanaman kangkung *Ipomoea aquatica* Forsk. pada sistem hidroponik menggunakan larutan Hoagland. Penelitian menggunakan Rancangan Acak Lengkap RAL yang terdiri dari 5 perlakuan dengan 8 ulangan. Kelima perlakuan tersebut ialah Hoagland dengan nitrat ditambah Nostoc P1, Hoagland dengan nitrat tanpa Nostoc P2, Hoagland dengan nitrat dan amonium tanpa Nostoc P3, Hoagland dengan amonium tanpa Nostoc P4, dan Hoagland dengan amonium ditambah Nostoc P5. Pemberian Nostoc sebanyak 2 g ke dalam larutan hara dilakukan pada 0 hst dan 14 hst. Hasil Uji LSD.

.....This research aims to analyze the effect of nitrate and ammonium as well as Nostoc sp. GIA13a on vegetative growth of water spinach plants *Ipomoea aquatica* Forsk. was carried out using a hydroponic system. Randomized Complete Design consisting of 5 treatments with eight replications was used in the study. The five treatments were Hoagland with nitrate plus Nostoc P1, Hoagland with nitrate minus Nostoc P2, Hoagland with nitrate and ammonium minus Nostoc P3, Hoagland with ammonium minus Nostoc P4, and Hoagland with ammonium plus Nostoc P5. Inoculation of 2 g of Nostoc sp. GIA13a in nutrient solution was performed at 0 hst and 14 hst. Furthermore, the LSD test results.