

**PENGARUH MACAM PUPUK ORGANIK CAIR DAN *Trichoderma sp.*
TERHADAP PERTUMBUHAN DAN HASIL KUBIS MERAH (*Brassica
oleraceae* L. var. *capitata forma rubra*).**

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ABSTRAK

Kubis merah (*Brassica oleraceae* L. var. *capitata forma rubra*) merupakan salah satu sayuran yang memiliki kandungan gizi yang banyak serta memiliki nilai ekonomi tinggi. Penelitian ini bertujuan untuk mengkaji macam pupuk organik cair dan *Trichoderma sp.* terhadap pertumbuhan dan hasil tanaman kubis merah (*Brassica oleraceae* L.var. *capitata forma rubra*). Penelitian ini dilaksanakan pada bulan mei-juli 2017 di Dusun Weron Desa Umbulharjo Kecamatan Cangkringan Sleman. Penelitian ini menggunakan percobaan faktorial dan dirancang menggunakan Rancangan Acak Kelompok Lengkap (RAKL), perlakuan diulang sebanyak 4 ulangan. Faktor pertama ialah macam-macam pupuk organik cair yang terdiri dari 4 taraf yaitu C0 = Tanpa POC , C1= Urine Sapi, C2 = Akar Bambu, C3= Glereside. Faktor kedua ialah *Trichoderma sp.*, yang terdiri dari dua taraf yaitu T0 = Tanpa *Trichoderma sp.*, T1= *Trichoderma sp.*. Hasil pengamatan dianalisis dengan menggunakan *Uji Duncan Multiple Range Test* (DMRT) pada taraf uji 5%. Terdapat interaksi antara macam pupuk organik cair dan trichoderma sp. pada tinggi tanaman 42 hst, jumlah daun 42 hst, panjang akar, jumlah akar, dan berat krop. Kombinasi perlakuan urin sapi dan trichoderma sp. memberikan berat krop kubis merah paling baik daripada perlakuan yang lain. Tidak ada pengaruh nyata pada kandungan vitamin C dan vitamin A pada kubis merah

Kata kunci : Pupuk Organik Cair, *Trichoderma sp.*, Kubis Merah

**THE EFFECTS OF VARIOUS LIQUID ORGANIC FERTILIZER AND
Trichoderma sp. ON THE GROWTH AND YIELD OF RED CABBAGE
(*Brassica oleraceae* L. var. *capitata forma rubra*)**

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ABSTRACT

Red cabbage is one of the vegetables that has a lot of nutrition content and it has a high economic value. This research aims to examine liquid organic fertilizer various and *Trichoderma* sp. on the growth and yeild of red gabbage (*Brassica oleraceae* L. var. *capitata forma rubra*). The research was conducted in May until July 2017 at Weron, Umbulharjo Village, Cangkringan, Sleman. This research used randomized complete block design (RCBD), 4 x 2 with four replications. The first factor was various of liquid organic fertilizer consists four variances: without liquid organic fertilizer, cow urine, bamboo root, and glereside. The second factor was *Trichoderma* sp. consists two variances: without *Trichoderma* sp., and with *Trichoderma* sp. The observation result was analyzed by using Duncan Multiple Range Test (DMRT) at 5% level. The result showed that there were an interaction between liquid organic fertilizer various and *Trichoderma* sp. on the plant height at 42 days (the days after planting), the leaves number at 42 days (the days after planting), the root lenght, the roots number, and the crop weight of red cabbage. The treatment combination of cow urine and *Trichoderma* sp. gave the best crop weight compared to other treatments. There was no significant effect on vitamin C and vitamin A content in the red cabbage.

Keywords : *liquid organic fertilizer, trichoderma sp., red cabbage*

