

## ABSTRAK

**Hendi Nuryanto 2019. Pengaruh Pupuk Hayati Majemuk Pada Pertumbuhan dan Hasil Tanaman Cabai Rawit (*Capsicum Frutescens* L.) Varietas Dewata di bawah bimbingan Cecep Hidayat dan Budy Frasetya TQ.**

Bakteri fiksasi N (*Azotobacter* sp. dan *Azospirillum* sp.) dan bakteri penambat P (*Bacillus* sp.) berpotensi dalam meningkatkan ketersediaan dan serapan hara N dan P bagi tanaman. Penelitian ini bertujuan untuk mengetahui pengaruh pemberian dosis pupuk hayati terhadap pertumbuhan dan hasil tanaman cabai rawit. Penelitian dilaksanakan di Kp. Kuyambut, Desa Tanjungkemuning, Kecamatan Tarogong Kaler, Kabupaten Garut dari bulan April hingga Juli 2018. Penelitian menggunakan metode Rancangan Acak Kelompok (RAK) sederhana. Dosis Pupuk Hayati (A =Tanpa perlakuan dosis, B= Pupuk hayati 5 g tanaman<sup>-1</sup>, C= Pupuk hayati 10 g tanaman<sup>-1</sup>, D= Pupuk hayati 15 g tanaman<sup>-1</sup>, E= Pupuk hayati 20 g tanaman<sup>-1</sup>). Terdapat 5 taraf perlakuan dengan 5 kali ulangan. Pengaruh yang terjadi diuji lanjut menggunakan Uji Duncan pada taraf 5%. Hasil penelitian menunjukkan pemberian pupuk hayati berpengaruh terhadap Nisbah Pupus Akar dan Indeks Panen. Namun, perlakuan dosis pupuk hayati majemuk 5-20 g tanaman<sup>-1</sup> belum mampu meningkatkan pertumbuhan dan hasil tanaman cabai rawit varietas dewata.

Kata Kunci : pupuk hayati, pertumbuhan, hasil, cabai rawit



## ABSTRACT

**Hendi Nuryanto, 2019. The Effect of Compound Biofertilizers on Growth and Yield of Cayenne Papper (*Capsicum frutescens* L.) Dewata Varieties Supervised by Cecep Hidayat and Budy Frasetya TQ.**

N fixation bacteria (*Azotobacter* sp. And *Azospirillum* sp.) Moreover, P-fixing bacteria (*Bacillus* sp.) help in increasing the availability and uptake of nutrients for plants. This study aims to determine the effect of dosing biofertilizers on the growth and yield of the cayenne pepper. The research was conducted in Kuyambut, Tanjungkemuning Village, North Tarogong, District Garut from April to July 2018. The research used factorial Randomized Group Design (RGD) 1 factorial. The biofertilizer Dosage (A= No treatment, B= biofertilizer 5 g<sup>-1</sup> plant, C= biofertilizer 10 g plant<sup>-1</sup>, D= biofertilizer 15 g plant<sup>-1</sup>, E= biofertilizer 20 g plant<sup>-1</sup>). There are 5 treatment with 5 repetitions. The effect that occurred was tested further using the Duncan Test at the level of 5 %. However, the application of compound biofertilizers of 5-20 g plant<sup>-1</sup> could not able to increase the growth and yield of chilli dewata varieties.

Keyword: biofertilizer, growth, cayenne pepper

