

## ABSTRAK

**Annisaa Fauziah. 2021. Pengaruh dosis Monosodium Glutamat dan Bokashi Kotoran Sapi terhadap Pertumbuhan dan Hasil Tanaman Buncis tegak (*Phaseolus vulgaris L.*) Varietas Kenya. Dibawah bimbingan Salamet Ginandjar dan Suryaman Birnadi**

Pupuk anorganik yang digunakan untuk meningkatkan produksi tanaman berdampak pada menurunnya tingkat kesuburan tanah, untuk itu perlu ditambahkan bahan organik yang mampu mengurangi dampak tersebut. Salah satunya dapat menggunakan Monosodium Glutamat dan bokashi kotoran sapi secara tepat. Pemberian MSG dan bokashi kotoran sapi diharapkan mampu mempengaruhi pertumbuhan dan hasil tanaman buncis tegak varietas kenya. Penelitian ini bertujuan untuk mengetahui pengaruh pemberian MSG dan Bokashi Kotoran Sapi dalam meningkatkan pertumbuhan dan hasil tanaman buncis tegak varietas kenya. Penelitian ini dilaksanakan pada bulan Maret sampai dengan bulan Juni 2021. Tempat Penelitian dilaksanakan di Desa Marga Mukti, Kecamatan Pangalengan, Kabupaten Bandung, Provinsi Jawa Barat, Indonesia. Metode yang digunakan yaitu Rancangan Acak Lengkap faktorial 2 faktor. Faktor pertama pemberian MSG sebanyak 4 taraf, kontrol 0 g tanaman<sup>-1</sup>, 3 g tanaman<sup>-1</sup>, 6 g tanaman<sup>-1</sup>, dan 9 g tanaman<sup>-1</sup>. Faktor kedua Bokashi sebanyak 3 taraf, kontrol 0 g tanaman<sup>-1</sup>, 25 g tanaman<sup>-1</sup>, dan 50 g tanaman<sup>-1</sup>. Hasil penelitian menunjukkan terjadi interaksi antara MSG dan Bokashi terhadap bobot segar brangkasan dan bobot kering brangkasan. Pemberian Bokashi kotoran sapi 50 g tanaman<sup>-1</sup> berpengaruh terhadap luas daun, jumlah polong, dan nisbah pupus akar.

Kata Kunci : Bokashi Kotoran Sapi, Buncis Tegak, Monosodium Glutamat

## ABSTRACT

**Annisaa Fauziah. 2021. Influence of Dose of Monosodium Glutamate and Cow Manure Organic Mater on Growth and Yield of Snap Beans (*Phaseolus vulgaris*) Variety Kenya. Under the guidance by Salamet Ginandjar and Suryaman Birnadi**

Inorganic fertilizers used to increase crop production have an impact on decreasing soil fertility, For this reason, it is necessary to add organic matter that can reduce this impact. One of them can use Monosodium Glutamate and Cow Manure Organic Mater appropriately. The application of MSG and cow dung bokashi is expected to affect the growth and yield of Kenya varieties of snap beans. The purpose of this study was to determine the effect and dose of organic monosodium glutamate and cow manure organic mater on the growth and productivity of snap beans. The research was conducted from March to June 2021. The research was held in Mekar Setia Village, Pangalengan Bandung, West Java Province, Indonesian. The method used was factorial completely randomised design 2 Factors. The first factor was giving monosodium glutamate with 4 levels, control 0 g plant<sup>-1</sup>, 3 g plant<sup>-1</sup>, 6 g plant<sup>-1</sup>, dan 9 g plant<sup>-1</sup>. The second factor was cow manure organic mater with 3 levels, control 0 g plant<sup>-1</sup>, 25 g plant<sup>-1</sup>, dan 50 g plant<sup>-1</sup>. The results showed an interaction between monosodium glutamate and cow manure organic mater on fresh index and harvest index. Giving cow manure organic mater 50 g plant<sup>-1</sup> has an effect on leaf area, amount of snap beans, fresh weight of snap beans, and root loss ratio.

Key Words : Cow manure organic mater, Monosodium glutamate, and Snap beans