ABSTRAK

Tujuan penelitian ini adalah 1) Mengetahui adanya pengaruh pemberian dosis pupuk organik cair limbah kulit Pisang Kepok terhadap tanaman Bunga kol (*Brassica oleracea var. botrytis,* 2) Mengetahui presentase dosis manakah yang paling terbaik terhadap pertumbuhan tanaman Bunga kol (*Brassica oleracea var. botrytis),* 3) Mengetahui kelayakan hasil penelitian yang dapat digunakan sebagai bahan ajar LKPD kelas XII pada materi pertumbuhan. Jenis penelitian ini adalah Rancangan Acak Lengkap (RAL). Pada penelitian ini menggunakan 4 perlakuan yakni P1 (50ml/L air), P2 (100ml/L air), P3 (200ml/L air) dan P4 (300ml/L air) masing-masing perlakuan diberi 8 ulangan. Parameter yang diamati adalah penambahan tinggi batang tanaman bunga kol (cm) dan jumlah helai daun bunga kol. Berdasarkan hasil penelitian rata-rata tinggi tanaman bunga kol P1 = 1626, P2 = 2313, P3 = 2041, P4 = 3006 sedangkan hasil rata-rata pada jumlah helai daun bunga kol P1 = 1188, P2 = 1613, P3 = 18 dan P4 = 2463. Data dianalisis mengunakan One-Way ANOVA (Uji Normalitas, Homogenitas, Hipotesis dan BNJ). Berdasarkan hasil penelitian, terdapat pengaruh pemerian dosis pupuk organik cair kulit pisang kepok terhadap pertumbuhan tanaman bunga kol. Hasil uji hipotesis F_{hit} 114,39 > $F_{(0,05)\ (28,7)}$ 2,36. Pengujian BNJ terhadap pertumbuhan tanaman bunga kol. Berdasarkan analisis validasi sumber belajar, maka penelitian ini cocok untuk pembelajaran biologi berupa LKPD.

Kata Kunci: POC Kulit Pisang Kepok, Bunga Kol, LKPD

ABSTRACT

The objectives of this research are 1) To determine the effect of giving a dose of liquid organic fertilizer from Banana Kepok peel waste on cauliflower plants *(Brassica oleracea var. botrytis)*, 2) To find out which dosage percentage is best for the growth of Cauliflower plants *(Brassica oleracea var. botrytis)* , 3) Knowing the feasibility of research results that can be used as teaching material for class XII LKPD on growth material. This type of research is a Completely Randomized Design (CRD). In this study, 4 treatments were used, namely P1 (50ml/L water), P2 (100ml/L water), P3 (200ml/L water) and P4 (300ml/L water), each treatment was given 8 repetitions. The parameters observed were the increase in stem height of the cauliflower plants (cm) and the number of cauliflower leaves. Based on the research results, the average height of cauliflower plants is P1 = 1626, P2 = 2313, P3 = 2041, P4 = 3006, while the average results for the number of cauliflower leaves are P1 = 1188, P2 = 1613, P3 = 18 and P4 = 2463. Data were analyzed using One-Way ANOVA (Normality, Homogeneity, Hypothesis and BNJ Test). Based on the research results, there is an influence of the dosage of kepok banana peel liquid organic fertilizer on the growth of cauliflower plants. Hypothesis test results F_{hit} 114,39 > $F_{(0,05)\ (28,7)}$ 2,36. BNJ testing on the growth of cauliflower plants. Based on the validation analysis of learning resources, this research is suitable for biology learning in the form of LKPD.

Keywords: POC Banana Peel Kepok, Cauliflower, LKPD