

ABSTRAK

Tujuan penelitian ini adalah untuk mengetahui pengaruh pemberian air cucian beras dengan penambahan Pumakkal, EM4, Urea, mengetahui pengaruh air cucian beras dengan penambahan aktivator yang memberikan pengaruh terbaik dan menyusun hasil penelitian sebagai sumber belajar biologi berupa LKPD. Jenis penelitian ini adalah penelitian eksperimen dengan menggunakan RAL 4 perlakuan dan 5 ulangan. Perlakuannya adalah Air cucian beras saja, Air cucian beras dengan penambahan Pumakkal, air cucian beras dengan penambahan EM4 dan air cucian beras dengan penambahan urea, Setiap perlakuan diberikan ulangan sebanyak 5 kali. Parameter yang diamati adalah tinggi tanaman (cm) dan berat basah (gr) tanaman padi. Data dianalisis menggunakan One-Way ANOVA (Uji Normalitas, Homogenitas, Hipotesis dan BNJ). Berdasarkan hasil penelitian, terdapat pengaruh pemberian air cucian beras dengan masing masing penambahan aktivator Pumakkal, EM4 dan Urea terhadap pertumbuhan tanaman padi. Hasil uji hipotesis menunjukkan $F_{hit} > F_{daf}$. Pengujian BNJ selanjutnya menunjukkan bahwa perlakuan P4 memberikan pengaruh terbaik terhadap pertumbuhan tanaman padi. Berdasarkan analisis validasi sumber belajar, maka penelitian ini cocok untuk pembelajaran biologi berupa LKPD.

Kata Kunci : air cucian beras, tanaman padi, LKPD.

ABSTRACT

The aims of this study was to determine the effect of giving rice washing water with the addition of (Pumakkal, EM4, Urea), to determine the effect of rice washing water with the addition of an activator that gave the best effect and to compile research results as a source of biology learning in the form of LKPD. This type of research is experimental research using completely randomized design with 4 treatments and 5 replications. The treatments were rice washing water only, rice washing water with the addition of Pumakkal, rice washing water with the addition of EM4 and rice washing water with the addition of urea. Each treatment was replicated 5 times. Parameters observed were plant height (cm), wet weight (gr) of rice plants. Data were analyzed using One-Way ANOVA (Test for Normality, Homogeneity, Hypothesis and Tukey's honestly significance difference). Based on the results of the study, there was an effect of giving rice washing water with each addition of an activator (Pumakkal, EM4 and Urea) on the growth of rice plants. The results of the hypothesis test show $F_{Calculate} > F_{table}$. Subsequent Tukey's honestly significance difference testing showed that P4 treatment gave the best effect on rice plant growth. Based on the analysis of the validation of learning resources, this research is suitable for learning biology in the form of LKPD.

Key words : rice washing water, *oryza sativa* L., LKPD.