

## ABSTRAK

### PENGARUH JENIS PENGAWET DAN LAMA PENYIMPANAN STEK RUMPUT PAKCHONG TERHADAP KUALITAS FISIK STEK, PENYUSUTAN BOBOT STEK, DAN DAYA TUMBUH

Oleh

Fitriyani

Penelitian ini bertujuan untuk mengetahui pengaruh jenis pengawet dan lama penyimpanan stek rumput pakchong terhadap kualitas fisik stek, penyusutan bobot stek, dan daya tumbuh. Penelitian ini dilaksanakan pada November 2022--Januari 2023, di Lahan Laboratorium Lapang Terpadu, Fakultas Pertanian, Universitas Lampung. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) pola faktorial 4x4. Perlakuan faktor P terdiri dari P0 (Tanpa perlakuan), P1 (Penyimpanan stek dengan pelilinan), P2 (Penyimpanan stek dengan *silica gel*), P3 (Penyimpanan stek dengan vakum) dan Faktor L terdiri dari L0 (Lama penyimpanan 0 hari), L1 (Lama penyimpanan 7 hari), L2 (Lama penyimpanan 14 hari), L3 (Lama penyimpanan 21 hari). Data yang diperoleh dianalisis sidik ragam dan dilanjutkan dengan Uji Lanjut Beda Nyata terkecil (BNt) pada taraf 5%. Berdasarkan hasil penelitian yang didapat menunjukkan bahwa perlakuan pemberian pengawet dan lama simpan berpengaruh nyata terhadap kualitas fisik, penyusutan bobot stek, dan daya tumbuh. Hasil uji lanjut BNt 5% yang dilakukan terdapat interaksi yang berpengaruh nyata antara perlakuan dengan lama penyimpanan terhadap penyusutan bobot stek dan daya tumbuh stek. Pada penyusutan bobot stek tertinggi terdapat pada perlakuan P2L2 penggunaan *silica gel* dengan lama penyimpanan 3 minggu yaitu sebesar 3,47g, sedangkan pada daya tumbuh terdapat pada perlakuan P1L2 (pencelupan lilin pada penyimpanan 2 minggu) yaitu sebesar 66,67%.

**Kata kunci:** Lama penyimpanan, Pengawetan stek, dan Rumput pakchong

## **ABSTRACT**

### **THE EFFECT OF THE TYPE PRESERVATIVE AND STORAGE OF PAKCHONGS GRASS CUTTINGS ON THE PHYSICAL QUALITY OF CUTTINGS, SHRINKAGE OF CUTTING AND GROWTH**

**By**

**Fitriyani**

This study aims to determine the effect of the type of preservative and storage time of pakchong grass cuttings on the physical quality of cuttings, shrinkage of cuttings, and growing power. This research was conducted in November 2022--January 2023, at the Integrated Field Laboratory, Faculty of Agriculture, University of Lampung. This study used a completely randomized design (CRD) with a 4x4 factorial pattern. The P factor treatment consisted of P0 (without treatment), P1 (Storage of cuttings with wax), P2 (Storage of cuttings with silica gel), P3 (Storage of cuttings with vacuum) and Factor L consists of L0 (Storage time 0 days), L1 (Storage time 7 days), L2 (Storage time 14 days), L3 (Storage time 21 days). The data obtained were analyzed for variance and continued with the Least Significant Difference (LSD) follow-up test at the 5% level. Based on the results of the research, it was shown that the drug administration of preservatives and shelf life had a significant effect on physical quality, cutting weight loss, and growing power. The results of the 5% BNt follow-up test carried out showed significant interactions between treatment and storage time on cutting weight loss and cutting growth ability. The highest cutting weight loss was found in the P2L2 treatment using silica gel with a storage time of 3 weeks which was 3.47g, while the growth power was found in the P1L2 treatment (wax immersion in 2 weeks storage) which was 66.67%.

**Keywords:** Length of storage, Preservation of cuttings, and Pakchong grass