

## **PENURUNAN KADAR GAS AMONIA DAN KUALITAS KOMPOS FESES KELINCI DENGAN PENAMBAHAN STARTER *Pseudomonas* sp. LS3K DAN *Candida* sp. LS3T**

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### **INTISARI**

Penelitian ini bertujuan untuk mengetahui pengaruh penambahan *Pseudomonas* sp. LS3K dan *Candida* sp. LS3T untuk menurunkan amonia dan kualitas kompos feses kelinci. Penelitian dilakukan dengan memberikan berbagai perlakuan terhadap feses kelinci. Penelitian terdiri dari tiga perlakuan, yaitu perlakuan pertama dengan penambahan marolis sebagai kontrol, perlakuan kedua dengan penambahan *Pseudomonas* sp. LS3K, dan perlakuan ketiga dengan penambahan *Candida* sp. LS3T. Data yang diperoleh meliputi pertumbuhan kultur starter, uji kualitas fisik meliputi suhu dan pH pengomposan, uji mikrobiologis, dan uji kualitas kimia meliputi kadar air, bahan organik, C-organik, P total, K total, N total, dan C/N rasio. Data pengembangbiakan kultur starter, uji fisik, dan uji mikrobiologis dianalisis secara deskriptif. Data konsentrasi gas amonia dan uji kualitas kimia dianalisis dengan rancangan acak lengkap pola searah dan *Duncan's New Multiple Range Test* (DMRT). Hasil analisis menunjukkan bahwa perlakuan penambahan *Pseudomonas* sp. LS3K dan *Candida* sp. LS3T terhadap penurunan konsentrasi gas amonia dan uji kualitas kimia tidak memberikan pengaruh yang nyata. Hasil penelitian menunjukkan bahwa perlakuan penambahan *Candida* sp. LS3T mampu menekan gas amonia yang dilepaskan paling baik dibandingkan dengan perlakuan penambahan *Pseudomonas* sp. LS3K dan starter komersial. Hasil uji kualitas kimia menunjukkan perlakuan penambahan *Pseudomonas* sp. LS3K dan *Candida* sp. LS3T tidak memberikan pengaruh yang berbeda nyata. Hasil uji mikrobiologis menunjukkan jumlah koloni *Pseudomonas* sp. LS3K lebih banyak dibandingkan dengan *Candida* sp. LS3T.

Kata kunci : Amonia, Bakteri nitrifikasi, Feses kelinci, Kualitas kompos feses kelinci

**THE DECLINE OF AMONIA GAS LEVEL AND THE QUALITY OF  
RABBIT'S COMPOST FECES WITH STARTER ADDITION OF  
*Pseudomonas* sp. LS3K AND *Candida* sp. LS3T**

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**ABSTRACT**

This study aims to determine the effects of *Pseudomonas* sp. LS3K and *Candida* sp. LS3T to the ammonia reduction and quality of rabbit feces compost. The research was accomplished by providing a variety of treatments to the rabbit's feces. This study consist of three treatments, the first treatment with the addition of marolis as control, the second treatment with the addition of *Pseudomonas* sp. LS3K and the third treatment with the addition of *Candida* sp. LS3T. Data obtained were the starter culture growth, concentration of ammonia, examination of the qualities of physical such as temperature and pH composting, microbiology examination and the chemical quality such as water content, organic matter, C-organic. P total, K total, N total, and C/N ratio was examines. The examinations above are analysed by using diverse methods. Descriptive analysis performed on data starter culture growth, physical quality, and microbiology examination. Data of ammonia concentration and quality of the cgemical, using the method of completely randomized design of one way anova. The result of this study The result showed that the addition of *Candida* sp. LS3T was capable of suppressing ammonia gas at the best levels. Chemical quality test result indicate the addition of *Pseudomonas* sp. LS3K and *Candida* sp. LS3T did not show a significantly different effect.

**Keywords:** Amونيا, Rabbit's feces, Bacteria nification, The quality of compost rabbit's feces.