

ABSTRAK

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PEMBUATAN KOMPOS LIMBAH AMPAS TEH HITAM DENGAN PENAMBAHAN AKTIVATOR PROMI DAN *STARDEC*

xiv + 60 halaman + 17 tabel + 9 gambar + Lampiran

Produksi teh Nasional tahun 2020 sebanyak 78,2 ton dan mengalami kenaikan tahun 2021 menjadi 94,1 ton, banyak produksi teh maka semakin banyak limbah ampas teh yang dihasilkan. Limbah ampas teh hitam yang dibiarkan menumpuk begitu saja disekitar salah satu tempat usaha sebanyak 3,5kg/hari dapat mencemari lingkungan. Tujuan penelitian ini adalah menganalisis kualitas kompos limbah ampas teh hitam dengan penambahan aktivator promi dan *stardec*.

Penelitian ini bersifat Deskriptif menggunakan jenis penelitian *Posttest Only Control Group Design* dengan 3 perlakuan yaitu limbah ampas teh 300 gram (kontrol), penambahan aktivator promi dan *stardec* 12 ml. Data dianalisis secara deskriptif sesuai acuan SNI 19-7030-2004 tentang standar kualitas kompos.

Hasil pemeriksaan C/N rasio ampas teh hitam sebesar 21,70 belum memenuhi SNI 19-7030-2004. Dari hasil pemeriksaan Laboratorium C/N rasio kontrol sebesar 24,72 dan P(1,08%) dan K(0,82%) sedangkan penambahan aktivator Promi menghasilkan rata - rata C/N rasio sebesar 20,68, P(1,14%), K(1,05%) dan penambahan aktivator *Stardec* menghasilkan rata – rata C/N rasio sebesar 18,23, P(0,98), K(1,18%). Dari hasil tersebut diatas C/N rasio kontrol dan promi tidak memenuhi standar dikarenakan terdapat *Trichoderma-ma harzianum* DT 38, *T Pseudokoningii* DT 39, *Aspergillus* dan Jamur, pada kandungan P dan K sudah memenuhi syarat SNI.

Kesimpulan penelitian ini adalah hasil pemeriksaan kandungan C/N rasio bahwa aktivator promi dan kontrol belum memenuhi SNI, sedangkan aktivator *Stardec* sudah memenuhi standar SNI 19-7030-2004. Disarankan perlu adanya penggantian aktivator agar lebih efisiensi maka menggunakan kotoran hewan yang mudah didapatkan dan mempercepat pengomposan.

Daftar Bacaan : 1 SNI + 3 buku + 20 Jurnal (2017 – 2022)

Klasifikasi : -

Kata kunci : *Ampas Teh, Promi, Stardec, C/N rasio, P, K*

ABSTRACT

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MAKING BLACK TEA PULP WASTE COMPOST WITH THE ADDITION OF PROMI AND *STARDEC* ACTIVATORS

xiv+ 60 pages + 17 tables + 9 images + Appendices

National tea production in 2020 was 78.2 tons and increased in 2021 to 94.1 tons, the more tea production, the more tea pulp waste produced. Black tea pulp waste that allowed to accumulate just like that around one of the business places as much as 3.5kg / day can pollute the environment. The purpose of this study was to analyze the quality of black tea pulp waste compost with the addition of Promi and *Stardec* activators.

This descriptive study utilized the *Post test Only Control Group Design* research with 3 treatments, namely tea pulp waste 300 grams (control), the addition of Promi activator and *Stardec* 12 ml. The data were analyzed descriptively according to SNI 19-7030-2004 concerning compost quality standards.

The results of the examination C/N ratio of black tea pulp of 21.70 have not met SNI 19-7030-2004. From the results of laboratory tests C/N control ratio of 24.72 and P (1.08%) and K (0.82%) while the addition of Promi activator produces an average C/N ratio of 20.68, P (1.14%), K (1.05%) and the addition of *stardec* activator produces an average C/N ratio of 18.23, P (0.98), K (1.18%). From the above results C/N ratio control and promi do not meet the standards because there are *Trichoderma-ma harzianum* DT 38, *T Pseudokoningii* DT 39, *Aspergillus* and fungi, on the content of P and K already meet SNI requirements.

The research of this study is the result of examination of the content of C/N ratio that promi activators and controls have not met the SNI, while *Stardec* activators already meet the standards of SNI 19-7030-2004. It is recommended that the need for replacement of activators to be more efficient then using animal waste that is easily obtained and accelerates composting.

Reading List : 1 SNI + 3 books + 20 Journals (2017 – 2022)

Classification :-

Keywords : *Tea Dregs, Promi, Stardec, C/N ratio, P, K*