

**PENGARUH PERBEDAAN KONSENTRASI NaOH
TERHADAP KARAKTERISTIK PULP DAN KERTAS SENI
BERBAHAN DASAR TANDAN PISANG MAS (*Musa
paradisiaca*)**

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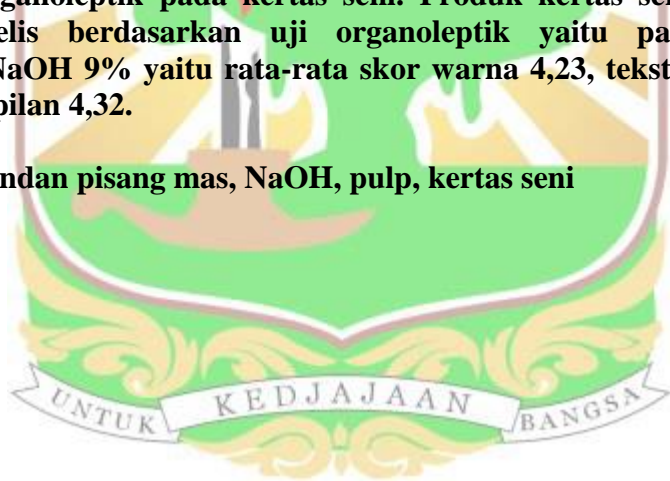
Pengaruh Perbedaan Konsentrasi NaOH Terhadap Karakteristik Pulp Dan Kertas Seni Berbahan Dasar Tandan Pisang Mas (*Musa paradisiaca*)

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh perbedaan konsentrasi NaOH pada proses *pulping* terhadap karakteristik pulp dan kertas seni berbahan dasar tandan pisang mas (*Musa paradisiaca*). Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) dengan 5 perlakuan (Konsentrasi NaOH; 7%, 9%, 11%, 13% dan 15%) dan 3 kali ulangan. Data dianalisis menggunakan analisis sidik ragam (*Analysis of Variance*), jika berbeda nyata dilanjutkan dengan uji DNMRT pada taraf 5%. Pengamatan karakteristik pulp meliputi: rendemen, bilangan Kappa, pH dan ketahanan tarik lembaran pulp, sedangkan untuk pengamatan karakteristik kertas seni meliputi: kadar air, gramatur, derajat putih dan uji organoleptik. Hasil penelitian menunjukkan bahwa perbedaan konsentrasi NaOH berpengaruh nyata terhadap bilangan Kappa dan pH Lindi Hitam pada pulp serta derajat putih dan organoleptik pada kertas seni. Produk kertas seni yang paling disukai panelis berdasarkan uji organoleptik yaitu pada perlakuan konsentrasi NaOH 9% yaitu rata-rata skor warna 4,23, tekstur permukaan 4,18 dan tampilan 4,32.

Kata kunci- tandan pisang mas, NaOH, pulp, kertas seni



The effects of Various NaOH Concentration in Pulp and Art Paper Characteristics With Bunch of Banana (*Musa paradisiaca*) as a Raw Material

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ABSTRACT

This research aims to know the effects of various NaOH concentration on pulping process toward pulp and art paper characteristics with bunch of banana (*Musa paradisiaca*) as a raw material. This Research used a Completed Randomized Design (CRD) with 5 treatments (NaOH concentration; 7%, 9%, 11%, 13% dan 15%) and 3 replications. Data were analyzed statistically using Anova (Analysis of Variance) and were continued by DNMRT at 5% level. Observations for pulp characteristics were yield, Kappa number, pH and tensile strength. Observations for art paper were moisture content, gramatur, degree of whiteness and organoleptic. The result showed that NaOH concentration was significantly different toward Kappa number, pH, degree of whiteness and organoleptic. The best art paper product based on organoleptic properties was NaOH 9% with parameter acceptance score in color 4.23, surface texture 4.18 and appearance 4.32.

Keywords- bunch of banana, NaOH, pulp, art paper

