

**PENGARUH PERBEDAAN KONSENTRASI EKSTRAK DAUN
PANDAN WANGI (*Pandanus amaryllifolius*, Roxb) TERHADAP
KARAKTERISTIK SABUN TRANSPARAN**

Skripsi

*Sebagai Salah Satu Syarat untuk Memperoleh
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Pengaruh Perbedaan Konsentrasi Ekstrak Daun Pandan Wangi (*Pandanus amaryllifolius*, Roxb) terhadap Karakteristik Sabun Transparan

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh perbedaan konsentrasi ekstrak daun pandan wangi (*Pandanus amaryllifolius*, Roxb) terhadap karakteristik sabun transparan. Penelitian ini menggunakan Rancangan Acak Lengkap yang terdiri dari 5 perlakuan dan 3 kali ulangan. Data dianalisis secara statistika menggunakan ANOVA dan dilanjutkan dengan uji Duncan's New Multiple Range Test (DNMRT) pada taraf 5 %. Perlakuan penelitian adalah; Perlakuan A (sabun transparan tanpa penambahan ekstrak pandan wangi), perlakuan B (sabun transparan dengan penambahan ekstrak pandan wangi 1%), perlakuan C (2%), perlakuan D (3%), dan perlakuan E (4%). Hasil penelitian ini menunjukkan bahwa penambahan ekstrak pandan wangi pada sabun transparan berpengaruh nyata terhadap kadar fraksi tak tersabunkan, warna, aromadan tidak berpengaruh nyata terhadap kadar air, jumlah asam lemak, alkali bebas, nilai pH, nilai iritasi, nilai kekerasan, nilai stabilitas busa, transparansi. Berdasarkan hasil analisis kimia, fisik, dan sensori produk sabun transparan yang terbaik adalah perlakuan penambahan ekstrak pandan wangi 4%. Hasil analisis kimia dari sabun produk terbaik adalah; kadar air 27,57%, jumlah asam lemak 45,57%, alkali bebas 0,044%, fraksi tak tersabunkan 12,79%, nilai pH 10,03, sabun tidak menimbulkan iritasi, kekerasan 15,01 kg/cm², stabilitas busa 85,39%, sedangkan uji sensori warna 4,35, aroma 4,05, dan transparansi 4,05. Hasil pengujian antibakteri menggunakan bakteri *Staphylococcus aureus* terhadap ekstrak pandan wangi menghasilkan zona hambat 5,33 mm, sedangkan sabun tanpa penambahan dan dengan penambahan ekstrak pandan wangi 1-4% belum memberikan daya hambat terhadap bakteri *Staphylococcus aureus*.

Kata Kunci: ekstrak pandan wangi, karakteristik, sabun transparan

The effect of concentration differences of pandan leaf extract (*Pandanus amaryllifolius*, Roxb) againsts Transparant soap characteristics

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ABSTRACT

This research aimed to determine the effect of concentration differences of pandan leaf extract (*Pandanus amaryllifolius*, Roxb) againsts Transparant soap characteristics. This research used a Randomized Complete Design which are consist of 5 treatment and three replicates. The data analyzed using ANOVA statistical basis and continued with the test Duncan's New Multiple Range Test (DNMRT) at the 5% level. The treatments in this research are; Treatment A (transparant soap without the addition of pandan extract), treatment B (transparant soap with the addition of pandan extract 1%), treatment of C (2%), treatment of D (3%), and E treatment (4%). The results of this research showed that the addition of pandan extract in transparant soap significantly effected the unsaturated fat, color, aroma and have no significant effect on water content, amount of fatty acid, free alkali, pH value, irritation value, foam stability value, hardness, transparency. Based on the results of the chemical, physical test and sensory analysis of the best transparant soap product is a product with the addition of pandan extract 4%. The result of the chemical analysis on transparant soap the best product is; water content 27.57%, amount of fatty acid 45.57%, free alkali 0.044%, unsatisfied fat 12.79%, pH value 10.03, soap can not causing irritation, hardness 15.01 kg/cm², foam stability 85.39%, while sensory color test 4.35, aroma 4.05 and transparency 4.05. The results antibacterial test use *Staphylococcus aureus* of pandan extract produced inhibition 5.33 mm, while the transparant soap without addition and with the addition of pandan extract 1-4% has not provided inhibition to the bacteria *Staphylococcus aureus*.

Keyword: characteristics, pandan extract, transparant soap