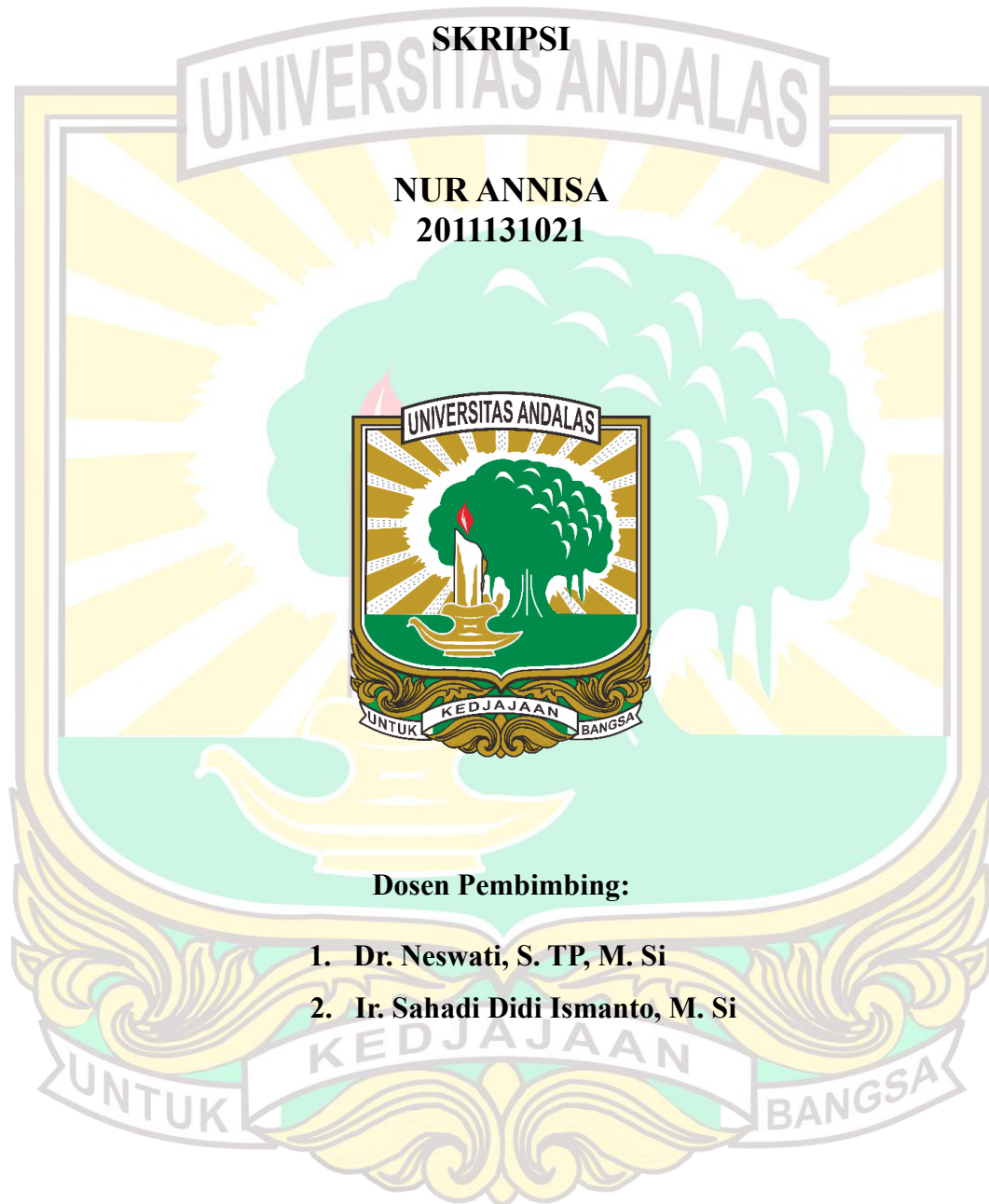


**SABUN PADAT TRANSPARAN BERBAHAN BAKU VCO
DENGAN PENAMBAHAN EKSTRAK DAUN SIRIH CINA
(*Peperomia pellucida*, L.)**



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**Sabun Padat Transparan Berbahan Baku VCO dengan Penambahan
Ekstrak Daun Sirih Cina (*Peperomia pellucida*, L.)**

Nur Annisa, Neswati, Sahadi Didi Ismanto

ABSTRAK

Sabun padat transparan merupakan sabun yang mengandung bahan-bahan humektan sehingga bisa diaplikasikan sebagai sabun cuci muka yang memiliki nilai estetika. Sabun padat transparan dengan penambahan ekstrak daun sirih cina dapat memberikan nilai lebih pada sabun padat transparan karena bersifat antibakteri dan antioksidan. Selanjutnya dilakukan penelitian dengan tujuan mendapatkan konsentrasi penambahan ekstrak daun sirih cina paling optimal dan menentukan harga jualnya. Penelitian ini menggunakan metode Rancangan Acak Lengkap (RAL) dengan 5 perlakuan dan 3 ulangan yaitu A (konsentrasi ekstrak 0%), B (konsentrasi ekstrak 0,3%), C (konsentrasi ekstrak 0,7%), D (konsentrasi ekstrak 1,1%) dan E (konsentrasi ekstrak 1,5%). Data yang diperoleh dianalisis menggunakan statistik ANOVA (Analysis of Variance) dan apabila berbeda nyata pada taraf $\alpha = 5\%$ (F hitung > F tabel 0,05) dilanjutkan dengan uji lanjut DNMRT (Duncan's New Multiple Range Test). Berdasarkan hasil penelitian diperoleh hasil terbaik pada perlakuan D (konsentrasi ekstrak 1,1%) dengan kadar air 29,99%, nilai pH 9,48, kadar lemak 60,73%, bahan tidak larut dalam etanol 0,41%, ALB 2,11%, zona hambat terhadap aktivitas antibakteri 23,99 mm, aktivitas antioksidan 48,89% dan tidak menimbulkan iritasi serta menghasilkan sabun padat yang transparan. Hasil perhitungan harga jual sabun padat transparan dengan ekstrak daun sirih cina diperoleh sebesar Rp 37.000/batang.

Kata Kunci: sabun padat transparan, ekstrak daun sirih cina, antibakteri, antioksidan

Transparent Solid Soap Made from VCO with the Addition of *Peperomia pellucida* (L.) Extract

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UNIVERSITAS ANDALAS ABSTRACT

Transparent solid soap is a type of soap that contains humectant ingredients, making it suitable as a facial cleansing soap with aesthetic value. The addition of *Peperomia pellucida* (shiny bush) extract to transparent solid soap can enhance its value due to its antibacterial and antioxidant properties. This study aimed to determine the optimal concentration of *Peperomia pellucida* extract in transparent solid soap and to establish its selling price. The research employed a Completely Randomized Design (CRD) method with five treatments and three replications: A (0% extract concentration), B (0.3% extract concentration), C (0.7% extract concentration), D (1.1% extract concentration), and E (1.5% extract concentration). The data obtained were analyzed using ANOVA (Analysis of Variance) statistics and what if they were significantly different at the $\alpha = 5\%$ level ($F_{\text{count}} > F_{\text{table } 0.05}$) followed by the DNMRT (Duncan's New Multiple Range Test) follow-up test. The results indicated that the best outcome was achieved with treatment D (1.1% extract concentration), which produced a transparent solid soap with a moisture content of 29.99%, pH of 9.48, fat content of 60.73%, insoluble matter in ethanol at 0.41%, total free alkali at 2.11%, an antibacterial inhibition zone of 23.99 mm, antioxidant activity of 48.89%, and no irritation observed. Additionally, the calculated selling price for the transparent solid soap with *Peperomia pellucida* extract was IDR 37,000 per bar.

Keywords: transparent solid soap, *Peperomia pellucida* extract, antibacterial, antioxidant