**FORMULASI SEDIAAN *HAND AND BODY LOTION* DARI SARI ENDOKAP BUAH MELON (*Cucumis melo* L)**

**SEBAGAI PELEMBAB KULIT**

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# ABSTRAK

Endokap buah melon (*Cucumis melo* L) mengandung banyak air yang menjanjikan kulit tetap terhidrasi yang dapat digunakan sebagai pelembab kulit. Pelembab kulit yang umum diformulasikan adalah *hand and body lotion*. Tujuan dari penelitian ini adalah untuk memformulasikan sari endokap buah melon sebagai *hand and body lotion* dan uji aktifitasnya sebagai bahan pelembab kulit .

Metode penelitian ini adalah metode eksperimental, diawali dengan penyarian endokap buah melon, skrining fitokimia, dan memformulasikan sari endokap buah melon dengan konsentrasi 10%; 20%; dan 30%. Evaluasi sediaan meliputi pemeriksaan organoleptis, uji homogenitas, uji pH, uji tipe emulsi, uji viskositas, uji daya sebar, uji sentrifugasi,uji hedonik, uji iritasi, uji efektivitas kelembaban, dan uji stabilitas (*Cycling test*).

Hasil skrining fitokimia menunjukkan bahwa sari endokap buah melon mengandung senyawa alkaloid; flavonoid; tannin; glikosida; dan steroid/triterpenoid. Hasil pemeriksaan organoleptis, semua formula memiliki bentuk yang sama, namun terdapat perbedaan warna dan aroma karena perbedaan konsentrasi sari dari tiap formula, uji homogenitas menunjukkan homogen, nilai pH yang dihasilkan berkisar 5,8-5,7, tipe emulsi m/a, viskositas *lotion* menunjukkan semakin tinggi konsentrasi sari endokap buah melon, maka semakin rendah nilai viskositas, daya sebar yang dihasilkan pada tiap formula 6,3 cm, uji sentrifugasi tiap formula tidak terjadi pemisahan, uji hedonik menunjukkan bahwa FIII yang paling disukai panelis. Uji iritasi menunjukkan nilai negatif. Hasil efektivitas kelembaban menunjukkan perubahan persentase kelembaban dari sebelum dan sesudah pemakaian *lotion*. Hasil *cycling test* tiap formula tidak menunjukkan adanya perubahan terhadap warna, aroma dan bentuk pada sediaan *lotion*. Berdasarkan hasil tersebut dapat disimpulkan bahwa sari endokap buah melon dapat diformulasikan sebagai *hand and body lotion* yang mempunyai fungsi sebagai pelembab kulit.

***Kata Kunci:*** *sari, endokap, buah melon, hand and body lotion, pelembab kulit.*

**FORMULATION OF HAND AND BODY LOTION ENDOCARP FRUITS OF MELON (*Cucumis melo* L)**

**AS SKIN MOISTURIZER**

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# ABSTRACT

The endocarp of the melon's (*Cucumis melo* L) fruits contains a lot of water promises a skin moisturizer. Commonly skin mouisturizer is formulated as hand and body lotion . The purpose of this study were to formulation juice of melon's fruits endocarp into hand and body lotion and determine their activity as a skin moisturizer.

The method of this research was the experimental method, It was started with the extraction of melon's fruit endocarp, phytochemical screening, and formulating melon's endocarp juice with a concentration 10%; 20%; and 30%. Physical evaluations such as organoleptic test, homogeneity test, pH test, emulsion type test, viscosity test, scaterring test, centrifugation test, hedonic test, irritation test, and stability test (*Cycling test*), were carried out in this study.

The results of phytochemical screening showed that the melon's endocarp juice contained alkaloids; flavonoids; tannin; glycosides; and steroid/triterpenoids. Organoleptic examination results showed all formulas have the same shape, but there are differences in color and aroma due to different concentrations of each formula, homogeneity test showed homogeneity, the pH value range were around 5,8-5,7, emulsion type was o/w, viscosity lotion showed that higher concentration of melon's endocarp juice, has lower viscosity, the scattering produced in each formula was around 6,3 cm, centrifugation test for each formula did not occur separation, hedonic test showed FIII was the most preferred by panelists, the irritation test showed a negative value. Moisture effectiveness results showed that the percentange of humadity from before and after using lotion has been increase. The results of cycling test of each formula did not show any changes in the of color, aroma and shape of lotion. Based on these results it can be concluded that the juice of melon’s fruit endocarp can be formulation as a hand and body lotion which has a function as a skin moisturizer.

***Keywords:*** *juice, endocarp, melon, hand and body lotion, skin moisturizer.*