

**PENGARUH PENAMBAHAN EKSTRAK DAUN SUKUN
(*Artocarpus altilis*) TERHADAP KARAKTERISTIK SKIN LOTION
DAN NILAI SPF TABIR SURYA BERBAHAN BAKU VCO
(*VIRGIN COCONUT OIL*)**

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**FAKULTAS TEKNOLOGI PERTANIAN
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Pengaruh Penambahan Ekstrak Daun Sukun (*Artocarpus altilis*) Terhadap Karakteristik Skin Lotion dan Nilai SPF Tabir Surya Berbahan Baku VCO (*Virgin Coconut Oil*)

Indah Puji Lestari¹, Rini², Novizar Nazir²

ABSTRAK

Virgin Coconut Oil diketahui mengandung senyawa asam lemak jenuh seperti laurat dan oleat yang dapat melembutkan kulit. Sedangkan ekstrak daun sukun (*Artocarpus altilis*) memiliki senyawa alami yang dapat digunakan sebagai tabir surya seperti flavonoid. Flavonoid dalam tanaman memiliki potensi tabir surya karena adanya gugus kromofor. Gugus kromofor merupakan sistem aromatik terkonjugasi yang menyebabkan kemampuan untuk menyerap kuat sinar pada kisaran panjang gelombang sinar ultraviolet. Sehingga senyawa flavonoid dapat digunakan sebagai senyawa yang berkhasiat sebagai tabir surya. Tujuan penelitian ini mengetahui pengaruh penambahan ekstrak daun sukun terhadap karakteristik skin lotion tabir dan mencari formula yang terbaik dari pembuatan skin lotion tabir surya. Hasil penelitian menunjukkan penambahan ekstrak daun sukun berpengaruh signifikan pada taraf 5 % terhadap karakteristik kimia (pH, aktivitas antioksidan dan nilai Sun Protection Factor / SPF), karakteristik fisik (viskositas, daya sebar) dan karakteristik organoleptic (warna, kelengketan) namun tidak signifikan terhadap karakteristik organoleptic aroma. Formula yang terbaik ialah perlakuan D (penambahan ekstrak daun sukun 6 %) dengan nilai SPF = 23,74 , aktivitas antioksidan = 31,46%, pH= 7,50 , viskositas = 2528 cP, daya sebar = 2,9 cm dan rata-rata keseluruhan Organoleptik = 3,53. Nilai SPF dari semua formula skin lotion tabir surya termasuk kedalam proteksi ultra.

Kata Kunci : Ekstrak Daun Sukun (*Artocarpus altilis*), Flavonoid Skin Lotion, Tabir Surya, SPF dan VCO.

The Effect Of Addition Of Breadfruit Leaf Extract (*Artocarpus altilis*) On The Characteristics Of Skin Lotion and SPF Value Of Sunscreen Made From VCO (*Virgin Coconut Oil*)

Indah Puji Lestari¹, Rini², Novizar Nazir²

ABSTRAK

Virgin Coconut Oil is known to contain saturated fatty acid compound such as lauric and oleic which can soften the skin. Meanwhile breadfruit leaf extract (*Artocarpus altilis*) has natural compounds that can be used as sunscreen such as flavonoids. Flavonoids in plants have sunscreen potential due to the presence of chromophore groups. The chromophore groups is a conjugated aromatic system that causes the ability to absorb strong light in the wavelengths range of ultraviolet light. So that flavonoid compounds can be used as compounds that are efficacious as sunscreen. The purpose of this study was to determine the effect of adding breadfruit leaf extract on the characteristics of skin lotion and to find the best formula for making sunscreen skin lotion. The results showed that the addition of breadfruit leaf extract had a significant effect at the 5 % level on chemical characteristics (pH, antioxidant activity, value of Sun Protection Factor / SPF), physical characteristics (viscosity, spreadability) and organoleptic characteristics (color, stickiness) but had no significant effect on the organoleptic characteristics of aroma. The best formula was treatment D (addition of breadfruit leaf 6 %) with an SPF value = 23,74 , antioxidant activity = 31,46 %, pH = 7,50, viscosity = 2528 cP, spreadability = 2,9 cm and overall average of organoleptic = 3,53. The SPF value of all sunscreen skin lotion formulas is included in ultra protection.

Keywords : Breadfruit Leaf Extract (*Artocarpus altilis*), Flavonoids, Skin Lotion , Sunscreen, SPF And VCO.