

INTISARI

FORMULASI DAN EVALUASI SEDIAAN SABUN TRANSPARAN BERBASIS MINYAK KELAPA MURNI (*Virgin Coconut Oil*) DENGAN PENAMBAHAN EKSTRAK DAUN BIDARA (*Ziziphus mauritiana Lamk.*)

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Tanaman bidara (*Ziziphus mauritiana Lamk*) merupakan salah satu tanaman yang digunakan sebagai obat tradisional khususnya bagian daun yang mengandung metabolit sekunder seperti flavonoid yang memiliki aktivitas sebagai antioksidan. Penelitian ini dilakukan bertujuan untuk mendapatkan formula sabun transparan berbasis minyak kelapa murni (*Virgin Coconut Oil*) dengan penambahan ekstrak daun bidara (*Ziziphus mauritiana Lamk*) yang memenuhi syarat karakteristik sabun transparan. Ekstrak daun bidara diperoleh dengan cara maserasi menggunakan pelarut Aquadest kemudian dipekatkan untuk mendapatkan ekstrak kental. Ekstrak kental daun bidara (*Ziziphus mauritiana Lamk*) sebanyak 20%, 30%, 40% kemudian diformulasikan menjadi empat formula sabun mandi padat yang berbeda. Hasil Formula I, II, III dan kontrol negatif, Pengujian karakteristik sabun dilakukan meliputi uji organoleptik, homogenitas, kadar air, kadar asam lemak bebas, kadar alkali bebas, daya busa dan nilai pH, memenuhi standar sabun. Tetapi tidak transparan sehingga perlu dilakukan perubahan ekstrak tidak menggunakan ekstrak daun bidara (*Ziziphus mauritiana Lamk*). Analisis dengan uji statistik one way anova menghasilkan data yang layak P-value nya <0,05 dan analisis uji normalitas menunjukkan nilai *sig* < dari 0,05 yang berarti data tidak terdistribusi normal. di lanjutkan dengan uji *Kruskal Wallis Test*, hasil *Asymp sig* 0,001 < 0,05 yang berarti terdapat perbedaan bermakna antara formulasi terhadap sediaan

Kata kunci : Daun Bidar (*Ziziphus mauritiana Lamk*), Ekstrak Daun bidara
Formulasi sabun transparan, uji karakteristik sabun

Keterangan : 1. Peneliti, 2. Pembimbing 1, 3. Pembimbing 2

ABSTRACT

FORMULATION AND EVALUATION OF THE PROVISION OF TRANSPARENT SOAP BASED ON (Virgin Coconut Oil) WITH ADDITION OF BIDARA LEAF EXTRACT (*Ziziphus mauritiana* Lamk.)

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*Bidara plant (*Ziziphus mauritiana* Lamk) is one of the plants used as a traditional medicine, especially the leaf part containing secondary metabolites such as flavonoids that have activity as antioxidants. This research was conducted aimed at obtaining a transparent soap formula based on virgin coconut oil (Virgin Coconut Oil) with the addition of bidara leaf extract (*Ziziphus mauritiana* Lamk) which meets the requirements of transparent soap characteristics. Bidara leaf extract is obtained by maceration using Aquadest solvent and then glued to obtain viscous extract. The thick extract of bidara leaves (*Ziziphus mauritiana* Lamk) as much as 20%, 30%, 40% is then formulated into four different solid bath soap formulas. Formula I, II, III results and negative control Testing of soap characteristics conducted for 15 days includes organoleptitestk, homogeneity, moisture content, free fatty acid content, free alkaline content, foam power and pH value, meet soap standards. But not trasparasi so it is necessary to make changes to the extract does not use bidara leaf extract (*Ziziphus mauritiana* Lamk). Analysis with statistik one way anovatest produced decent data P-its value <0.05 and analysis normality test indicates a sig value of < of 0.05 which means the data is not distributed normally. continued with the Kruskal Wallis Test, asymp sig results 0.001 < 0.05 which means there is a meaningful difference between formulations against.*

*Keywords : Bidar Leaves (*Ziziphus mauritiana* Lamk), Bidara Leaf Extract, Transparent soap formulation, soap characteristic test*