

**Program Studi Sarjana Farmasi
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ABSTRAK

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Formulasi dan Uji Efektivitas Antibakteri Sediaan *Facial Wash* Cair Ekstrak Etanol Daun Cantel Wesi (*Uncaria tomentosa*) Sebagai Anti Jerawat Terhadap Bakteri *Staphylococcus aureus*

Daun cantel wesi (*Uncaria tomentosa*) merupakan tanaman yang mengandung phytoconstituents seperti oxindole, alkaloid indole, glikosida, asam organik, proanthocyanidins, sterol dan triterpen. Secara tradisional dapat digunakan untuk mengobati demam, asma, abses, infeksi virus, infeksi saluran kemih dan luka serta terbukti dapat digunakan untuk meremajakan imun, antioksidan, antiinflamasi dan antimikroba. Penelitian ini bertujuan untuk mengetahui formula ekstrak daun cantel wesi (*Uncaria tomentosa*) dapat digunakan dalam sediaan *facial wash* dan mengetahui efektivitas *facial wash* cair ekstrak etanol daun cantel wesi (*Uncaria tomentosa*) terhadap *Staphylococcus aureus*. Metode penyiapan ekstrak menggunakan metode maserasi dan penentuan efektivitas antibakteri dilakukan dengan metode difusi cakram disk. Hasil yang diperoleh menunjukkan bahwa ekstrak etanol daun cantel wesi (*Uncaria tomentosa*) dapat diformulasikan dalam sediaan *facial wash* cair dengan perbedaan konsentrasi ekstrak 3%, 5% dan 7% serta evaluasi sediaan yang telah memenuhi syarat SNI dan *facial wash* cair ekstrak etanol daun cantel wesi (*Uncaria tomentosa*) dapat menghambat bakteri *Staphylococcus aureus* dengan rata-rata sebesar F1 12,74 mm dengan kategori kuat; F2 16,75 mm dengan kategori kuat dan F3 20,41 mm dengan kategori sangat kuat. Hasil uji statistik *one-way* ANOVA didapatkan signifikan $0.033 < 0.05$ yang berarti diameter hambat antar formula terdapat perbedaan pada masing-masing konsentrasi ekstrak pada sediaan *facial wash* cair.

Kata kunci : Daun cantel wesi, Antibakteri, *Facial wash* cair, Difusi cakram disk.

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ABSTRACT

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The Formulation and Antibacterial Effectiveness Test of Liquid Facial Wash Preparations with Ethanol Extract of Cat's Claw (*Uncaria Tomentosa*) Leaf as Anti-Acne against *Staphylococcus Aureus* Bacteria

Cat's claw leaves (*Uncaria tomentosa*) are herbs containing phytoconstituents such as oxindole, indole alkaloids, glycosides, organic acids, proanthocyanidins, sterols and triterpenes. Traditionally this herb can be used to treat fever, asthma, abscesses, viral infections, urinary tract infections, and wounds. Moreover, it has been proven to be used for immune rejuvenation, antioxidants, anti-inflammatories and antimicrobials. This research aimed to determine the formula of *Uncaria tomentosa* leaf extract that can be used in facial wash preparations and to determine the effectiveness of liquid facial wash with ethanol extract of *Uncaria tomentosa* leaves against *Staphylococcus aureus*. The extracting process was done by the maceration method, and the antibacterial effectiveness was determined by the disk diffusion method. The results showed that the ethanol extract of *Uncaria tomentosa* leaf could be formulated into liquid facial wash preparations with different extract concentrations of 3%, 5% and 7%; the preparations had been tested that it met the Indonesian standard, and liquid facial wash with ethanol extract of *Uncaria tomentosa* leaf could inhibit *Staphylococcus aureus* bacteria with an average F1 of 12.74 mm in the strong category; F2 of 16.75 mm in the strong category, and F3 of 20.41 mm F3 in the very strong category. The one-way ANOVA statistical test obtained a significant value of 0.033 <0.05, meaning that the diameter of the inhibition among the formulas was different in each extract concentration in liquid facial wash preparations.

Keywords : Cat's claw leaf, Antibacterial, Liquid facial wash, Disk diffusion

