

ABSTRAK

Nama : Ani Rahayu

Program Studi : Farmasi

Judul : Uji Aktivitas Antibakteri Ekstrak Etanol Daun Afrika (*Vernonia amygdalina* Delile) Terhadap Bakteri *Propionibacterium acnes* Dan Formulasinya Sebagai Sabun Wajah Cair

Daun afrika (*Vernonia amygdalina* Delile) merupakan tanaman yang banyak memiliki manfaat salah satunya berfungsi sebagai antibakteri. Penelitian ini untuk mengetahui aktivitas antibakteri daun afrika (*Vernonia amygdalina* Delile) terhadap bakteri *Propionibacterium acnes*. Ekstrak daun afrika dibuat dengan cara maserasi menggunakan etanol 70%. Uji aktivitas antibakteri dilakukan menggunakan metode difusi cakram dengan konsentrasi ekstrak etanol daun afrika (*Vernonia amygdalina* Delile) 2,5%, 5%, 7,5% dan 10%. Hasil penelitian menunjukkan bahwa ekstrak etanol daun afrika memiliki aktivitas antibakteri dengan diameter zona hambat berturut-turut dari konsentrasi adalah 9,15 mm, 12 mm, 14,25 mm, 16,1 mm. Pembuatan sediaan sabun wajah cair menggunakan tiga formula dengan variasi konsentrasi ekstrak etanol daun afrika (*Vernonia amygdalina* Delile) 5%, 7,5% dan 10%. Hasil evaluasi sediaan sabun wajah cair ekstrak etanol daun afrika menunjukkan bahwa sabun memiliki evaluasi organoleptis yaitu berwarna hijau tua, berbentuk liquid dan memiliki aroma mawar yang stabil selama 28 hari, pH yang sesuai dengan pH kulit wajah dengan rentang 4,5-6,5 , memiliki kemampuan daya bersih dan sediaan yang homogen. Formula sabun wajah cair yang baik dengan konsentrasi ekstrak etanol daun afrika 10%.

Kata kunci : antibakteri, *Propionibacterium acnes*, daun afrika, *Vernonia amygdalina*, sabun wajah.

ABSTRACT

Name : Ani Rahayu

Study program : Pharmacy

Title : Antibacterial Activity of Ethanol Extract African Leaves (*Vernonia amygdalina* Delile) Against *Propionibacterium acnes* And The Formulation of Liquid Facial Wash

African leaf (*Vernonia amygdalina* Delile) is a plant that has many benefits, one of which functions as an antibacterial. This study was to determine the

antibacterial activity of African leaves (*Vernonia amygdalina* Delile) against *Propionibacterium acnes* bacteria. African leaf extract is made by maceration using 70% ethanol. The antibacterial activity test was carried out using the disc diffusion method with a concentration of 2.5%, 5%, 7.5% and 10% of African leaf extract (*Vernonia amygdalina*). The results showed that the African leaf extract had antibacterial activity with diameters of inhibitory zones successively from concentrations of 9.15 mm, 12 mm, 14.25 mm, 16.1 mm. The preparation of liquid facial wash uses three formulas with variations in the concentration of the ethanol extract of African leaves (*Vernonia amygdalina* Delile) 5%, 7.5% and 10%. The evaluation results of liquid facial wash preparations with ethanol extract of African leaves show that the soap has an organoleptic evaluation, which is dark green, liquid and with a rose fragrance that is stable for 28 days, the pH is in accordance with the pH of facial skin in the range 4.5-6.5, has the ability to clean power and homogeneous preparation. A good liquid facial wash formula with a concentration of 10% African leaf ethanol extract.

Keywords: antibacterial, *Propionibacterium acnes*, African leaves, *Vernonia amygdalina*, facial wash.