

ABSTRAK

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Judul : Formulasi dan Uji Daya Hambat Tirosinase Sabun Cair Wajah dari Lobak (*Raphanus sativus* L.)

Ekstrak lobak mengandung inhibitor tirosinase yang dapat mengurangi hiperpigmentasi pada kulit. Tujuan penelitian ini untuk memformulasikan sediaan sabun cair wajah dari ekstrak lobak yang memiliki aktivitas penghambatan tirosinase. Pada penelitian ini dibuat 4 formula sabun cair dengan konsentrasi ekstrak lobak 0,4% dan 0,8%. Lobak dibuat menjadi ekstrak kental dengan metode maserasi dan diuapkan di *rotary evaporator* pada suhu 40°C. Ekstrak lobak dibuat menjadi sediaan sabun cair dengan metode pencampuran dan pelarutan. Hasil evaluasi sediaan sabun cair berwarna putih bening sampai kuning pekat, homogen, pH berkisar antara 6-6,8, berbau khas, memiliki sifat alir pseudoplastis dengan viskositas 2400-2800 cps dan memiliki ketinggian busa antara 13–14,5 cm. Hasil uji daya hambat tirosinase pada sabun cair wajah yang mengandung ekstrak lobak 0,4% dan 0,8% memiliki daya hambat tirosinase sebesar 37,46% dan 38,25%.

Kata kunci:

Sabun Cair Wajah, Penghambatan Tirosinase, Lobak (*Rhapanus sativus* L.)

ABSTRACT

Name : Ranita Harbiy Tsaniyah
Study Program : Pharmacy
Title : Formulation and inhibitory test for tyrosinase Face
Liquid Soap from Radish (*Raphanus sativus* L.)

Radish extract contains tyrosinase inhibitors which can reduce hyperpigmentation on the skin. The purpose of this study was to formulate facial liquid soap preparations from radish extract which had tyrosinase inhibitory activity. In this study 4 liquid soap formulations were made with radish extract concentrations of 0.4% and 0.8%. Radish is made into thick extract with maceration method and evaporated in rotary evaporator at 40°C. Radish extract is made into liquid soap preparations by mixing and dissolving method. The results of the evaluation of liquid soap preparations were clear white to deep yellow, homogeneous, pH ranged from 6-6.8, distinctive smelling, had pseudoplastic flow properties with a viscosity of 2400-2800 cps and had a foam height between 13-14.5 cm. The results of tyrosinase inhibitory test on facial liquid soap containing 0.4% and 0.8% turnip extract had a tyrosinase inhibition of 37.46% and 38.25%.

Keywords:

Facial cleanser liquid soap, Inhibition tyrosinase, Radish (*Rhapanus sativus* L.)