

ABSTRAK

Judul : Formulasi, Evaluasi, dan Uji Stabilitas Sediaan Sabun Cair Ekstrak Kulit Buah Delima Putih (*Punica granatum L.*)
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Pogram Studi : Farmasi

Sabun adalah produk yang dihasilkan dari reaksi asam lemak dan basa kuat yang berfungsi untuk membersihkan kotoran. Di era sekarang, produk-produk sabun mulai marak menggunakan bahan alam sebagai zat berkhasiat. Delima putih (*Punica granatum L.*) merupakan tanaman yang memiliki banyak manfaat, salah satu diantaranya mempunyai senyawa antioksidan yang kuat yakni flavonoid 42,36 % fenolik 20,24%, dan tanin 2,01%. Penelitian ini dilakukan dengan metode maserasi, sampel yang digunakan berasal dari kulit delima putih (*Punica granatum L.*). Jenis penelitian ini adalah penelitian eksperimental yaitu formulasi sabun cair ekstrak kulit delima putih dengan konsentrasi F1; 1%, F2; 1,5%, F3; 2% dilakukan uji fisik dan uji stabilitas *cycling test* selama 6 siklus dengan hasil uji organoleptik FI: hijau keputihan, FII: hijau muda, FIII: hijau. Hasil uji homogenitas FI, FII dan FIII menunjukkan tidak adanya butiran-butiran kasar yang terdapat. Hasil uji pH FI, FII, FIII menunjukkan hasil yang memenuhi standar dan tidak melebihi hasil uji bobot jenis FI, FII dan FIII menunjukkan nilai yang memenuhi standar yaitu 1,01-1,1 g/mg. Hasil uji tinggi busa FI, FII dan FIII menunjukkan hasil bahwa sabun tetap bertahan 60-70% setelah 5 menit pengadukan dan Hasil uji viskositas FI, FII dan FIII menunjukkan setiap siklus semakin menurun dikarenakan konsentrasi ekstrak yang berbeda-beda. Sabun cair ekstrak kulit delima putih dinyatakan stabil secara fisik dan stabil dalam penyimpanan.

Kata kunci : Delima putih, sabun cair, uji stabilitas, formulasi

ABSTRACT

Title : Formulation, Evaluation, and Stability Test of White Pomegranate Peel Extract (Punica granatum L.) Liquid Soap

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Soap is a product produced from the reaction of fatty acids and strong bases which functions to clean dirt. In the current era, soap products are starting to become popular using natural ingredients as nutritious substances. White pomegranate (Punica granatum L.) is a plant that has many benefits, one of which is that it has strong antioxidant compounds, namely flavonoids 42.36%, phenolics 20.24%, and tannins 2.01%. This research was carried out using the maceration method, the samples used came from white pomegranate skin (Punica granatum L). This type of research is experimental research, namely the formulation of white pomegranate peel extract liquid soap with F1 concentration; 1%, F2; 1.5%, F3; 2% underwent physical tests and cycling stability tests for 6 cycles with organoleptic test results FI: whitish green, FII: light green, FIII: green. The results of the FI, FII and FIII homogeneity tests showed that there were no coarse grains present. The pH test results for FI, FII, FIII show results that meet the standards and do not exceed the specific gravity test results for FI, FII and FIII which show values that meet the standards, namely 1.01-1.1 g/mg. The FI, FII and FIII foam height test results showed that the soap remained 60-70% after 5 minutes of stirring and the FI, FII and FIII viscosity test results showed that each cycle decreased due to different extract concentrations. White pomegranate peel extract liquid soap is stated to be physically stable and stable in storage.

Key words: White pomegranate, liquid soap, stability test, formulation