

INTISARI

WARDANI, S.A., 2019, PENGARUH VARIASI KONSENTRASI KARBOPOL TERHADAP MUTU FISIK GEL SAMPO MINYAK ATSIRI SEREH DAPUR (*Cymbopogon citratus*).

Minyak atsiri serih dapur (*Cymbopogon citratus*) merupakan minyak atsiri yang memiliki aktivitas antijamur dan antibakteri. Minyak atsiri serih dapur (*Cymbopogon citratus*) tidak dapat digunakan secara langsung karena tidak nyaman dalam pemakaian, sehingga akan dibuat dalam bentuk gel sampo. Penelitian ini bertujuan untuk melihat pengaruh variasi karbopol terhadap uji mutu fisik gel sampo dan mendapat formula terbaik dilihat dari mutu fisik gel sampo.

Gel sampo minyak atsiri serih dapur (*Cymbopogon citratus*) dibuat 3 formula dengan variasi konsentrasi karbopol 1,6%, 1,8%, 2,0%. Pengujian dilakukan selama 4 minggu terhadap mutu fisik gel sampo yang diuji meliputi organoleptis, homogenitas, pH, viskositas, stabilitas busa. Data dianalisis menggunakan program SPSS Statistic version 18.0 dengan metode *ANOVA one way* dan *Independent T-test*.

Hasil menunjukkan bahwa konsentrasi karbopol menghasilkan sediaan gel sampo yang baik dan berpengaruh terhadap mutu fisik gel sampo yang meliputi organoleptis, viskositas, stabilitas busa. Semakin tinggi konsentrasi carbopol maka semakin tinggi nilai viskositas namun nilai stabilitas busa rendah.

Kata kunci : gel sampo minyak atsiri serih dapur, carbopol, uji mutu fisik.

ABSTRACT

WARDANI, SA., 2019, THE INFLUENCE OF VARIATIONS IN CARBOPOL CONCENTRATION ON THE PHYSICAL QUALITY OF THE LEMONGRASS OIL (*Cymbopogon citratus*) GEL SHAMPOO.

Lemongrass oil (*Cymbopogon citratus*) is an essential oil that has antifungal and antibacterial activity. Lemongrass oil (*Cymbopogon citratus*) cannot be used directly because it is not comfortable to use, so it will be made in the form of shampoo gel. This study aims to see the effect of carbopol variation on the physical quality test of shampoo gel and get the best formula seen from the physical quality of shampoo gel.

Lemongrass oil (*Cymbopogon citratus*) shampoo gel made 3 formulas with a concentration of 1,6%, 1,8%, 2,0% carbopol. Tests carried out for 4 weeks on the physical quality of the emulgel tested included organoleptic, homogeneity, pH, viscosity, foam stability. Data were analyzed using the SPSS Statistics version 18.0 program with one way ANOVA method and Independent T-test.

The result showed that the carbopol concentration produced a good shampoo gel preparation and had an effect on the quality of the shampoo gel which included organoleptic, viscosity, foam stability. The higher the carbopol concentration, the higher the viscosity value but the lower the stability value of foam.

Keywords:Lemongrass oil gel shampoo, carbopol, physical quality test.