

INTISARI

DEWI NOVITASARI, 2022, FORMULASI *MICELLAR BASED WATER* DARI BUAH LABU SIAM (*Sechium edule(jacq.) Sw.*). KARYA TULIS ILMIAH, PROGRAM STUDI DII FARMASI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA. Dibimbing oleh apt. Muhammad Dzakwan, M.Si.

Labu siam merupakan tanaman yang mengandung alkaloid, tannin, saponin, dan flavonoid yang dapat mencegah penuaan dini dan berperan aktif melindungi kulit dari kerusakan, sehingga dapat diformulasikan menjadi *micellar based water*. Tujuan penelitian ini untuk membuat sediaan *micellar based water* dari buah labu siam dengan variasi konsentrasi *PEG-12 Dimetichone*, *Cocamidopropyl betaine*, *Pluronic F-127* sebagai surfaktan.

Micellar based water labu siam dibuat dalam 5 formula zat aktif yang dilarutkan menggunakan variasi konsentrasi *PEG-12 Dimetichone*, *Cocamidopropyl betaine*, *Pluronic F-127*. Sediaan *Micellar based water* yang dihasilkan diuji mutu fisik meliputi uji organoleptik, pH, viskositas dan stabilitas. Hasil data dianalisis menggunakan program SPSS Statistic Version 25.0 dengan metode ANOVA dan Uji Tukey B.

Hasil penelitian menunjukan variasi konsentrasi *PEG-12 Dimetichone*, *Cocamidopropyl betaine*, *Pluronic F-127* mempengaruhi hasil organoleptik, pH, viskositas dan stabilitas *micellar based water* ekstrak buah labu siam. Formula terbaik dipengaruhi konsentrasi *Cocamidopropyl betaine*.

Kata kunci : *Micellar based water*, labu siam, surfaktan

ABSTRACT

DEWI NOVITASARI, 2022, FORMULATION OF MICELLAR BASED WATER FROM THE FRUIT OF THE CHIM PUMP (Sechium edule(jacq.) Sw.). STUDY PROGRAM OF PHARMACEUTICAL STUDY PROGRAM, FACULTY OF PHARMACEUTICAL, SUKARYA UNIVERSITY. Supervised by apt. Muhammad Dzakwan, M.Si.

The Chayote is a plant that contains saponins, alkaloids, tannins, polyphenols, anthocyanins and flavonoids. Used to prevent premature aging and play an active role in protecting the skin from damage. The purpose of this study was to make micellar based water extract of chayote fruit with various concentrations of PEG-12 Dimetichone, Cocamidopropyl betaine, Pluronic F-127 as surfactants.

The Micellar based water chayote is made in 5 formulas of the active substance dissolved using various concentrations of PEG-12 Dimetichone, Cocamidopropyl betaine, Pluronic F-127. The micellar based water produced was tested for physical quality including organoleptic, pH, viscosity and stability tests. The results of the data were analyzed using the SPSS Statistic Version 25.0 program with the ANOVA method and the Tukey B test.

The results showed that variations in the concentration of PEG-12 Dimeticone Cocamidopropyl betaine, Pluronic F-127 affected the organoleptic yield, pH, viscosity and stability of the micellar based water of chayote extract. The best formula is influenced by the concentration of Cocamidopropyl betaine.

Key words : Micellar Based Water, Chayote, Surfactant