INTISARI

AMALIYA, RISKI., 2020, FORMULASI MICELLAR BASED WATER MINYAK BIJI TOMAT (TOMATO SEED OIL) DENGAN VARIASI KONSENTRASI PEG-12 DIMETICHONE SEBAGAI SURFAKTAN, KARYA TULIS ILMIAH, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI,SURAKARTA.

Minyak biji tomat (Tomato Seed Oil) merupakan minyak yang diperoleh dari pengolahan minyak biji tomat dengan tekhnik pengepresan, didalam minyak biji tomat terdapat kandungan likopen, flavonoid dan keratenoid. Pengolahan minyak biji tomat menjadi formula sediaan micellar based water bertujuan untuk menghilangkan rasa berminyak dari minyak biji tomat agar menjadi sediaan pembersih wajah yang memberikan rasa nyaman tanpa adanya kandungan alkohol. Pemilihan peg-12 dimetichone sebagai surfaktan karena sifatnya *emulsifying agent* atau mempunyai kemampuan sebagai *oil-in-water emulsifier*.

Micellar based water dibuat dengan 3 formula dengan variasi konsentrasi peg-12 dimetichone 1,75%; 2,25%; 2,75%. Penelitian ini menggunakan metode emulsi minyak dalam air, pengujian dilakukan 2 minggu terhadap mutu fisik micellar water yang diuji meliputi uji organoleptis, uji Ph, uji viskositas, uji stabilitas dan menggunakan uji *One Way ANOVA*.

Hasil penelitian micellar based water minyak biji tomat dengan variasi konsentrasi peg-12 dimetichone sebagai surfaktan dapat dibuat sediaan micellar based water, dan menghasilkan konsentrasi yang baik pada konsentrasi peg-12 dimetichone 2,75%.

Kata kunci : Micellar based water, minyak biji tomat, peg-12

ABSTRACT

AMALIYA, RISKI., 2020, FORMULATION OF TOMATO SEED OIL (TOMATO SEED OIL) MICELLAR BASED WATER WITH VARIATION CONCENTRATION OF PEG-12 DIMETICHONE AS SURFACTANT, SCIENTIFIC WRITING, FACULTY OF PHARMACEUTICALS, SETIA BUDI UNIVERSITY, SURAKARTA.

Tomato Seed Oil is an oil obtained from the processing of tomato seed oil by pressing techniques, in tomato seed oil there is a content of lycopene, flavonoids and keratenoid. Tomato seed oil processing into a micellar based water preparation formula aims to eliminate the oiliness of tomato seed oil in order to become a facial cleansing preparation that provides comfort without any alcohol content. The choice of peg-12 dimetichone as a surfactant is because it is an emulsifying agent or has the ability to be an oil-in-water emulsifier.

Micellar based water is made with 3 formulas with variations in the concentration of peg-12 dimetichone 1.75%; 2.25%; 2.75%. This research uses oil-in-water emulsion method, testing is carried out for 2 weeks on the physical quality of micellar water which is tested including organoleptic test, Ph test, viscosity test, stability test and using One Way ANOVA test.

The results of micellar based water studies of tomato seed oil with variations in the concentration of peg-12 dimetichone as a surfactant can be made using micellar based water preparations, and produce good concentrations at peg-12 dimetichone concentration of 2.75%.

Keywords: Micellar based water, tomato seed oil, peg-12