

## INTISARI

**MAYASARI A., 2016, FORMULASI DAN KARAKTERISASI MIKROEMULSI MINYAK BIJI ANGGUR (*Grape Seed Oil*) DENGAN SURFAKTAN TWEEN 80 DAN KOSURFAKTAN ETANOL, KARYA TULIS ILMIAH, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.**

Minyak biji anggur (*grape seed oil*) yang kandungan utamanya Oligomerik Proantosianidin (OPC) memiliki daya antioksidan 50 kali dari Vitamin E dan 20 kali dari Vitamin C sehingga berpotensi sebagai anti aging kulit. Telah dilakukan penelitian mikroemulsi minyak biji anggur (*grape seed oil*) dengan surfaktan tween 80 dan kosurfaktan etanol. Metode pembuatan mikroemulsi adalah proses pengadukan.

Formula mikroemulsi terbaik diperoleh dengan konsentrasi minyak biji anggur 2%; tween 80 26,25%; etanol 8,75%; dan aqua demineralisata 63%. Sediaan mikroemulsi kemudian di uji mutu fisik : organoleptis, viskositas, sentrifugasi, kerapatan, stabilitas, dan penentuan ukuran globul. Hasil penelitian menunjukkan bahwa sediaan mikroemulsi dengan surfaktan tween 80 dan kosurfaktan etanol memiliki stabilitas fisik yang baik.

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Kata kunci: Mikroemulsi, Minyak Biji Anggur, Tween 80, Etanol

## ABSTRACT

**MAYASARI A., 2016, THE FORMULATION AND CHARACTERIZATION MICROEMULTION GRAPE SEED OIL WITH TWEEN 80 SURFACTANT AND ETANOL COSURFACTANT, SCIENTIFIC WRITING. PHARMACY FACULTY. SETIA BUDI UNIVERSITY. SURAKARTA.**

Grape seed oil whose main content oligomeric proanthocyanidin ( OPC ) has 50 times the antioxidant power of Vitamin E and 20 times that of Vitamin C thereby potentially as skin anti aging. Has conducted research microemulsion grape seed oil with a surfactant tween 80 and cosurfactant ethanol. Microemulsion was made using a method of stirring.

Formula best microemulsion obtained by the concentration of grape seed oil 2%; tween 80 26,35%; ethanol 8,75%, and aqua demineralisata 63%. Microemulsion was then in the physical quality tests : organoleptic, viscosity, centrifugation, density, stability, and determining the size of the globule. The results showed that microemulsion with surfactant tween 80 and cosurfactant ethanol has excellent physical stability.

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Keywords : Microemulsion , Grape Seed Oil , Tween 80 , Ethanol