

FORMULASI DAN UJI IRITASI SEDIAAN *SOOTHING GEL* DENGAN VARIASI KONSENTRASI EKSTRAK ETANOL DAUN SIRSAK (*Annona muricata* L.)

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Abstrak

Soothing gel merupakan kosmetik pelembab dengan daya serap yang baik, memiliki sifat dingin saat diaplikasikan, dan dapat mengurangi kemerahan pada kulit. Namun, produk *soothing gel* berbahan dasar alami jarang ditemui di pasaran. Tujuan dilakukannya penelitian ini ialah merangkai inovasi sediaan *soothing gel* berbahan dasar ekstrak daun sirsak. Metode *Ultrasonic Assisted Extraction (UAE)* digunakan untuk mengekstraksi daun sirsak. *Soothing gel* diformulasikan menggunakan ekstrak daun sirsak untuk zat aktif sediaan yang bernilai 2%, 4%, dan 6%. Setelah diformulasikan, dilakukan uji evaluasi fisik pada setiap formulasi berupa uji homogenitas, organoleptik, pH, daya lekat, daya sebar, serta viskositas. Uji iritasi sediaan dijalankan dengan in vivo memakai kelinci dengan teknik *Draize Test*. Hasil dari uji iritasi yaitu semua formulasi tidak mengiritasi kulit. Kesimpulannya yaitu variasi konsentrasi ekstrak etanol daun sirsak sebagai zat aktif berpengaruh pada uji evaluasi fisik sediaan *soothing gel* dan didapatkan hasil evaluasi terbaik pada sediaan *soothing gel* dengan ekstrak daun sirsak 2% yang kemudian dilakukan uji antioksidan ekstrak dan sediaan tersebut dengan hasil IC50 yang tergolong sangat kuat yaitu 2,14 dan 4,75 ppm.

Kata kunci : Daun sirsak, *Soothing Gel*, Uji Sifat Fisik, Uji Iritasi, Uji Antioksidan

FORMULATION AND IRRITATION TEST OF SOOTHING GEL MEDICINE WITH VARIATIONS IN CONCENTRATION OF ETANOL EXTRACT OF SOURSOP LEAVES (*Annona muricata* L.)

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Abstrak

Soothing gel is a moisturizing cosmetic with good absorption, has cool properties when applied, and can reduce redness on the skin. However, natural-based soothing gel products are rarely found in the market. This research is intended to make an innovative soothing gel preparation based on soursop leaf extract. Ultrasonic Assisted Extraction (UAE) method was used to extract soursop leaves. Soothing gel was formulated using soursop leaf extract as the active substance whose value was 2%, 4%, and 6%. After formulation, physical improvement tests were carried out on each formulation including homogeneity, organoleptic, pH, adhesion, spreadability, and viscosity tests. The preparation irritation test was run with vivo using rabbits with the Draize Test technique. The results of the irritation test were that all formulations did not irritate the skin. In summary, the variation in the concentration of soursop leaf ethanol extract as the active ingredient affects the physical evaluation test of soothing gel preparations and the best evaluation results are obtained in soothing gel preparations with 2% soursop leaf extract which are then carried out antioxidant tests for extracts and preparations with IC50 results which are classified as very strong, namely 2.14 and 4.75 ppm.

Kata kunci : *Soursop leaves, Soothing Gel, Physical Properties Test, Irritation Test, Antioxidant Test*