

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

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Abstrak

Daun sirsak (*Annona muricata* L.) memiliki kandungan fenolik yang cukup tinggi. Penelitian ini bertujuan untuk memformulasikan sediaan *essence* ekstrak etanol daun sirsak serta melakukan uji sifat fisik sediaan, uji iritasi, dan uji kadar fenolik total. Ekstrak diperoleh menggunakan metode ultrasonik, kemudian diformulasikan menjadi sediaan *essence* dengan variasi konsentrasi ekstrak etanol daun sirsak masing-masing F0 (kontrol negatif), F1 (2%), F2 (4%), dan F3 (6%). Uji sifat fisik sediaan yang dilakukan yaitu uji organoleptis; uji pH; uji homogenitas; uji daya sebar; uji viskositas, uji iritasi, dan uji kadar fenolik total. Formulasi *essence* ekstrak daun sirsak F1 (2%), F2 (4%), dan F3 (6%) memiliki mutu fisik yang baik, kadar fenolik total meningkat dengan bertambahnya ekstrak, dan seluruh sediaan tidak mengiritasi. Penelitian ini menunjukkan bahwa sediaan *essence* ekstrak etanol daun sirsak F3 (ekstrak 6%) menjadi formula terbaik dan memenuhi standar dengan hasil sediaan berwarna coklat, berbau khas biji coklat, bertekstur cair; pH $5,50 \pm 0,1$; homogen; daya sebar $7,33 \pm 0,15$ cm; viskositas $707,18 \pm 29,04$ cP; tidak mengiritasi; dan kadar fenolik total $76,87 \pm 0,01$ mg GAE/g. Variasi konsentrasi ekstrak berpengaruh terhadap pH, daya sebar, viskositas, dan kadar fenolik total dari sediaan *essence* ekstrak etanol daun sirsak dengan nilai signifikansi = 0,000 (<0,05).

Kata kunci: *Annona muricata* L., *Essence*, Uji Sifat Fisik, Uji Iritasi, Uji Kadar Fenolik Total

FORMULATION AND IRRITATION TEST OF ESSENCE PREPARATION OF ETHANOL EXTRACT OF SOURSOP LEAVES (*Annona muricata* L.) WITH VARIOUS CONCENTRATION VARIATIONS

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Abstract

Soursop leaves (*Annona muricata* L.) contain a relatively high amount of phenolic compounds. This study aims to formulate an essence preparation of soursop leaf ethanol extract and conduct tests on the physical properties of the preparation, irritation tests, and total phenolic content tests. The extract was obtained using the ultrasonic method, then formulated into essence preparations with varying concentrations of soursop leaf ethanol extract, namely F0 (negative control), F1 (2%), F2 (4%), and F3 (6%). The physical properties of the preparations were tested, including organoleptic tests; pH tests; homogeneity tests; spreading tests; viscosity tests; irritation tests, and total phenolic content tests. The formulations of soursop leaf extract essence F1 (2%), F2 (4%), and F3 (6%) exhibited good physical quality, increased total phenolic content with higher extract concentrations, and did not cause irritation. This study indicates that the soursop leaf ethanol extract essence preparation F3 (6% extract) is the best formula meeting standards, with brown color, characteristic smell of cocoa beans, liquid texture; pH 5.50 ± 0.1 ; homogeneous; spreading power of 7.33 ± 0.15 cm; viscosity of 707.18 ± 29.04 cP; non-irritating; and total phenolic content of 76.87 ± 0.01 mg GAE/g. The variation in extract concentration affects the pH, spreading power, viscosity, and total phenolic content of the soursop leaf ethanol extract essence preparations with a significance value of 0.000 (<0.05).

Keywords: *Annona muricata* L., Essence, Physical Properties Test, Irritation Test, Total Phenolic Content Test