

**ABSTRAK****FORMULASI DAN UJI AKTIVITAS EKSTRAK PEGAGAN  
(*Centella asiatica*, (L.) Urban) SEBAGAI ANTIJERAWAT  
DALAM SEDIAAN GEL****Oleh :****Indah Pitaloka****201FF04044**

Ekstrak Pegagan (*Centella asiatica*, (L.) Urban) memiliki potensi yang dapat menghambat pertumbuhan bakteri *Propionibacterium acne*, untuk meningkatkan efektivitas penggunaan dan pemanfaatan ekstrak pegagan maka dibuat dalam bentuk sediaan sediaan kosmetika dengan bentuk gel. Tujuannya mendapat formula sediaan gel ekstrak pegagan yang memenuhi persyaratan dan stabil. Mendapatkan konsentrasi ekstrak pegagan yang optimal sebagai anti jerawat dalam sediaan gel. Dilakukan pengujian evaluasi meliputi organoleptik, homogenitas, uji daya sebar, uji daya lekat, uji pH, viskositas, stabilitas, sineresis dan uji aktivitas antibakteri sediaan gel. Hasil menunjukkan bahwa sediaan gel dari segi penampilan serta homogenitas baik, hasil daya sebar 4,90-5,17 cm uji daya lekat 3,64-4,96 detik, uji pH 5,85-5,91 uji viskositas 31186-34933 cP. Uji stabilitas freeze thaw pada uji pH dan viskositas mengalami penurunan namun masih masuk rentang dan tidak signifikan nilai  $p \geq 0.05$  dan tidak terjadi sineresis. Hasil uji aktivitas sediaan gel didapatkan zona hambat sebesar FI 9,66 mm FII 9,66 mm, FIII 10,33 mm dan FIV 10 mm dimana dari FI-FII merupakan kategori sedang dan FIII-FIV kuat maka nilai zona hambat tertinggi terdapat pada FIII dengan konsentrasi 0,050% dan FIV 0,1% ekstrak pegagan dapat dibuat menjadi sediaan gel yang memiliki aktivitas antibakteri serta memenuhi parameter evaluasi.

**Kata Kunci :** Centella, gel, aktivitas antibakteri, anti jerawat.

**FORMULATION AND ACTIVITY TEST EXTRACT PEGAGAN EVALUATION  
OF EXTRACT PEGAGAN (*Centella asiatica*, (L.) Urban) AS AN ACNE IN GEL**

**ABSTRACT**

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Pegagan extract (*Centella asiatica*, (L.) Urban) has the potential to inhibit the growth of *Propionibacterium acne* bacteria, to increase the effectiveness of the use and utilization of Pegagan extract, it is made in the form of cosmetic preparations in the form of a gel. The goal is to get a gel formulation of pegagan extract that meets the requirements and is stable. Getting the optimal concentration of pegagan extract as an anti-acne in gel preparations. Evaluation tests were carried out including organoleptic, homogeneity, dispersibility test, adhesion test, pH test, viscosity, stability, sineresis and antibacterial activity test of gel preparations. The results showed that the gel preparation in terms of appearance and homogeneity was good, the results of the spreadability were 4.90-5.17 cm, the adhesion test was 3.64-4.96 seconds, the pH test was 5.85-5.91, the viscosity test was 31186-34933 cP The freeze thaw stability test on the pH and viscosity test decreased but was still in the range and was not significant for the p value 0.05 and there was no sineresis. The results of the gel preparation activity test showed that the inhibition zone was FI 9.66 mm, FII 9.66 mm, FIII 10.33 mm and FIV 10 mm where from FI-FII was a medium category and FIII-FIV was strong, the highest inhibition zone value was in FIII. with a concentration of 0.050% and FIV 0.1% Pegagan extract can be made into a gel preparation that has antibacterial activity and meets the evaluation.

**Keywords :** *Centella* , gel, antibacterial activity, anti-acne