

**FORMULASI DAN EVALUASI SEDIAAN *SPRAY GEL***  
**EKSTRAK DAUN SALAM (*Syzygium polyanthum (Wight) Walp.*)**  
**DENGAN POTENSI ANTI-INFLAMASI**

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**ABSTRAK**

Daun salam (*Syzygium polyanthum (Wight) Walp.*) mengandung senyawa bioaktif seperti flavonoid dan tanin yang berpotensi sebagai anti-inflamasi. Sediaan topikal dalam bentuk spray gel merupakan inovasi yang mengunggulkan kemudahan aplikasi tanpa sentuhan tangan (non-touch), distribusi yang merata, serta kombinasi keunggulan gel yang melekat dan bentuk semprot yang praktis. Penelitian ini bertujuan untuk memformulasi dan mengevaluasi sediaan spray gel ekstrak etanol daun salam berdasarkan karakteristik fisika-kimia. Ekstrak diperoleh dengan maserasi menggunakan etanol 70%, kemudian diformulasi menjadi spray gel dengan variasi konsentrasi ekstrak 0% (F0), 12,5% (F1), 15% (F2), dan 17,5% (F3) menggunakan basis kombinasi Carbopol dan HPMC. Sediaan dievaluasi berdasarkan parameter organoleptik, pH, viskositas, homogenitas, pola penyemprotan, dan daya lekat. Hasil skrining fitokimia menunjukkan ekstrak positif mengandung flavonoid, saponin, dan tanin. Formula F2 (15%) menunjukkan karakteristik paling optimal dengan pH 5 (mendekati pH kulit), viskositas 1466,67 cPs, homogenitas baik, pola semprot merata, dan daya lekat yang sangat baik. Berdasarkan kandungan senyawa aktif dan karakteristik fisika-kimia yang memenuhi syarat, sediaan spray gel ekstrak daun salam konsentrasi 15% berpotensi dikembangkan sebagai sediaan topikal anti-inflamasi.

**Kata Kunci** : Daun salam, *Spray gel*, Ekstrak etanol, Formulasi, dan Evaluasi

**FORMULATION AND EVALUATION OF A BAY LEAF  
(*Syzygium polyanthum* (Wight) Walp.) EXTRACT SPRAY  
GEL WITH ANTI-INFLAMMATORY POTENCIAL**

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**ABSTRACT**

*Bay leaf (*Syzygium polyanthum* (Wight) Walp.) contains bioactive compounds such as flavonoids and tannins with potential anti-inflammatory activity. A topical preparation in the form of a spray gel is an innovation that offers the advantage of easy application without hand contact (non-touch), even distribution, and combines the benefits of an adhesive gel with a practical spray form. This study aimed to formulate and evaluate a spray gel preparation of ethanolic bay leaf extract based on its physicochemical characteristics. The extract was obtained by maceration using 70% ethanol and then formulated into a spray gel with variations in extract concentration: 0% (F0), 12.5% (F1), 15% (F2), and 17.5% (F3) using a combination of Carbopol and HPMC as the base. The preparations were evaluated based on organoleptic, pH, viscosity, homogeneity, spray pattern, and adhesiveness parameters. Phytochemical screening showed the extract positively contained flavonoids, saponins, and tannins. The F2 formula (15%) showed the most optimal characteristics with a pH of 5 (close to skin pH), a viscosity of 1466.67 cPs, good homogeneity, an even spray pattern, and excellent adhesiveness. Based on its active compound content and compliant physicochemical characteristics, the 15% bay leaf extract spray gel has the potential to be developed as an anti-inflammatory topical preparation..*

**Keywords :** *Bay leaves, Spray gel, Ethanol extract, Formulation, and Evaluation*

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