

ABSTRAK

FORMULASI DAN UJI EFEKTIVITAS SEDIAAN *SPRAY* ANTINYAMUK EKSTRAK ETANOL DAUN MANGKOKAN (*Polyscias scutellaria*)

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Daun mangkokan juga memiliki aktivitas sebagai larvasida Nyamuk genus *Culex* sp yang dikenal sebagai vektor penular arbovirus dan demam kaki gajah yang telah dibuktikan melalui uji percobaan yang dilakukan secara maserasi etanol 95% yang diaplikasikan pada 20 larva *Culex* sp. Tujuan penelitian ini adalah untuk mengetahui hasil uji efektivitas sediaan *spray* antinyamuk ekstrak etanol daun mangkokan (*Polyscias scutellaria*). Metode yang digunakan dalam penelitian ini adalah metode ekstraksi maserasi yang meliputi pengumpulan dan pengolahan daun mangkokan (*Polyscias scutellaria*), pembuatan serbuk simplisia daun mangkokan, penyiapan proses maserasi untuk mendapatkan ekstrak etanol daun mangkokan, pembuatan formulasi sediaan repelan *spray*, pemeriksaan terhadap evaluasi sediaan (uji organoleptis, uji homogenitas, uji pH, uji daya lekat, dan uji iritasi), uji stabilitas, serta pengujian efektivitas antinyamuk sediaan *spray* daun mangkokan (*Polyscias scutellaria*). Dari hasil penelitian dapat dikonfirmasi bahwa sediaan *spray* ekstrak etanol daun mangkokan memiliki tingkat efektivitas yang baik terhadap daya tolak nyamuk yaitu pada formula IV. Ekstrak Etanol Daun Mangkokan (*Polyscias scutellaria*) dapat diformulasikan menjadi sediaan *spray* antinyamuk. Hasil uji efektivitas sediaan *spray* ekstrak etanol daun mangkokan (*Polyscias scutellaria*) terhadap nyamuk menunjukkan bahwa ekstrak etanol daun mangkokan (*Polyscias scutellaria*) memiliki potensi sebagai zat antinyamuk.

Kata Kunci : Daun Mangkokan, Nyamuk, Ekstrak, Efektivitas, Formula

ABSTRACT

FORMULATION AND EFFECTIVENESS TEST OF ANTI-MOSQUITO SPRAY PREPARATION OF ETHANOL EXTRACT OF MANGKOKAN LEAVES (*Polyscias scutellaria*)

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Mangkoka leaves also have activity as a larvicide for mosquitoes of the genus Culex sp known as vectors that transmit arbovirus and elephantiasis fever which have been proven through Experimental tests were carried out using 95% ethanol maceration applied to 20 Culex sp. larvae. This research aims to find out the results test the effectiveness of an anti-mosquito spray preparation of ethanol extract of Mangkoka leaves (Polyscias scutellaria). The method used in this research is the method maceration extraction which includes the collection and processing of mangkoka leaves (Polyscias scutellaria), making mangkoka leaf Simplicia powder, process preparation maceration to obtain ethanol extract from mangkoka leaves, making formulations spray repellent preparations, examination of the preparation evaluation (organoleptic test, homogeneity test, pH test, adhesion test, and irritation test), stability test, as well as testing the effectiveness of anti-mosquito spray preparations from mangkoka leaves (Polyscias scutellaria). From the research results it can be confirmed that the spray preparation Mangkoka leaf ethanol extract has a good level of effectiveness against Mosquito-repellent power is in Formula IV. Ethanol Extract of Mangkoka Leaves (Polyscias scutellaria) can be formulated into anti-mosquito spray preparations. Results Test the effectiveness of a spray preparation of ethanol extract of mangkoka leaves (Polyscias scutellaria) against mosquitoes showed that the ethanol extract from the leaves Mangkoka (Polyscias scutellaria) has potential as an astringent Anti-mosquito.

Keywords: *Mangkoka leaves, Mosquitoes, Methods, Extracts, Formula*