POLITEKNIK KESEHATAN TANJUNGKARANG JURUSAN FARMASI
Laporan Tugas Akhir, Juli 2021

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FormulasiSediaan *Lotion*Antinyamuk Ekstrak Daun Kenikir *(Cosmos caudatus)*
ci+101 halaman, 10 tabel, 9 gambar dan 8 lampiran

ABSTRAK

Saat ini banyak *repellent* (antinyamuk) banyak digunakan masyarakat untuk membantu mengusir nyamuk, dan pada umumnya saat ini banyak *repellent* yang menggunakan bahan sintesis kimia contohnya *DEET (Diethyltoluamide), permerthrin, picaridin.* Penggunaan bahan *repellent* yang aman dan baik yaitu menggunakan bahan alam. Salah satu bahan alam yang bisa digunakan yaitu daun kenikir *(Cosmos caudatus)* yang diformulasikan sebagai *repellent* dalam bentuk *lotion*. Tujuan penelitian ini untuk mengetahui pengaruh variasi konsentrasi ekstrak daun kenikir F0(0%), F1(5%), F2(10%) dan F3(15%). *Lotion* tersebut selanjutnya dilakukan evaluasi yang meliputi organoleptis, homogenitas, pH, daya sebar dan stabilitas. Penelitian yang dilakukan bersifat eksperimental. Dilakukan 4 perlakuan dan 5 pengulangan. Hasil evaluasi dianalisis menggunakan analisa univariat.
Hasil penelitian yang diperoleh yaitu *lotion* antinyamuk ekstrak daun kenikir berwarna hijau tua, berbau kuat khas daun kenikir dan konsistensi setengah padat kental. Sediaan F0 dan F1 bersifat homogen dan sediaan F2 dan F3 bersifat tidak homogen. Daya sebar semua sediaan memenuhi persyaratandaya sebar yang baik berkisar antara 6-7 cm. pH sediaan *lotion* memenuhi syarat nilai pH kulit (4,5-6,5). Semua konsentrasi bersifat stabil.

Kata Kunci : Formulasi, *Lotion* Antinyamuk, Ekstrak Daun Kenikir

Daftar Bacaan : 26 (1978-2019)

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Anti-Mosquito Lotion Preparations Kenikir Leaf Extract (Cosmos caudatus)
ci+101 pages, 10 tables, 9 pictures and 8 atacchments

ABSTRAK

Currently, many repellents (mosquito repellent) are widely used by the community to help repel mosquitoes, and in general, currently many repellents use chemically synthesized materials such as DEET (Diethyltoluamide), permerthrin, picaridin. The use of safe and good repellent materials is to use natural materials. One of the natural ingredients that can be used is kenikir leaf (Cosmos caudatus) which is formulated as a repellent in the form of a lotion. The purpose of this study was to determine the effect of variations in the concentration of kenikir leaf extract F0(0%), F1(5%), F2(10%) and F3(15%). The lotion was then evaluated which included organoleptic, homogeneity, pH, dispersion and the research was carried out experimentally. Do 4 treatments and 5 repetitionsThe results of the evaluation of the analysis used univariate analysis.
The results of the research obtained were kenikir leaf extract mosquito repellent lotion, dark green in color, strong odor typical of kenikir leaves and thick semi-solid consistency. Preparations F0 and F1 are homogeneous and preparations F2 and F3 are not homogeneous. The dispersion of all preparations met the requirements of good dispersion ranging from 6-7 cm. The pH of the lotion preparation meets the requirements for the skin pH value (4.5-6.5). All concentrations are stable.

Keywords : Formulation, Mosquito Repellent Lotion, Kenikir Leaf Extract

Reading list : 26 (1978-2019)