



Topical Preparation of Newer and Safer Analogs of N,N-diethyl-2-phenylacetamide (DEPA) against *Aedes aegypti* Mosquitoes

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ABSTRACT

Cosmetic acceptability and primary skin irritation are the two main parameters for assessing the suitability of any topical formulation meant for protection against the painful bites of mosquitoes. In the present study four newer analogs of N,N-diethyl-2-phenylacetamide (DEPA), were synthesized and formulated for topical application as insect repellent. They were assessed for their irritant behavior on rabbit's skin for erythema and edema. The topical formulations of the analogs were also assessed for their protection time at varying concentrations against *Aedes aegypti* mosquitoes.

KEYWORDS

Insect Repellent; Mosquitoes; Protection

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