

**TIOCYMSO : LOTION ANTI NYAMUK ALAMI DARI SERAI
(*Cymbopogon nardus L.*) DAN KULIT TERUNG UNGU (*Solanum
molengena L.*) SEBAGAI UPAYA UNTUK MEMINIMALISIR
PENGUNAAN DEET (*Diethyltoluamide*)**

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ABSTRAK

Tanaman serai (*Cymbopogon nardus L.*) dan terung ungu (*Solanum molengena L.*) merupakan tanaman tropis yang dapat digunakan sebagai bahan untuk membuat lotion anti nyamuk. Hal ini dikarenakan serai mengandung senyawa sitronela (3,7-dimethyloct-6-en-1-ol) yang serupa dengan DEET (*N,N-Diethyl-m-tolamide*) dalam menghambat sensor penciuman nyamuk terhadap aroma yang menarik pada tubuh manusia, yaitu karbondioksida dan asam laktat. Kemudian kulit terung ungu yang kaya akan mineral dan vitamin E yang sangat baik untuk kulit. Kedua kandungan tersebut berfungsi untuk menjaga kelembapan kulit. Selain itu kulit terung ungu juga mengandung senyawa *anthocyanin* yang bertindak sebagai anti penuaan dan untuk menangkal radikal bebas dan *fitonutrien* yang efektif dalam menenangkan kulit. Tujuan dari penelitian ini adalah membuat lotion anti nyamuk kombinasi serai dan kulit terung ungu yang aman diaplikasikan berulang dalam sehari, serta mengetahui konsentrasi terbaik dari tiga formulasi sediaan lotion. Metode yang digunakan adalah distilasi uap sederhana minyak atsiri batang serai, pengambilan ekstrak kulit terung ungu, uji organoleptis, uji nilai pH, uji homogenitas, uji daya sebar, dan uji daya lekat. Hasil dari penelitian ini adalah lotion memiliki pH 5, pemeriksaan uji homogenitas menunjukkan massa lotion yang homogen. Konsentrasi terbaik sediaan lotion anti nyamuk kombinasi serai dan kulit terung ungu yaitu 50:50.

Kata kunci: Serai, kulit terung ungu, dan lotion.

**TIOCYMSO: THE NATURAL ANTI MOSQUITO LOTION FROM
LEMONGRASS (*Cymbopogon nardus L.*) AND PURPLE EGGPLANT
PEEL (*Solanum molengena L.*) AS AN EFFORT TO MINIMIZE THE USE
OF DEET (*Diethyltoluamide*)**

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ABSTRACT

Lemongrass (*Cymbopogon nardus L.*) and purple eggplant (*Solanum molengena L.*) are tropical plants that can be used as ingredients for making mosquito repellent lotions. This is because lemongrass contains a citronella compound (*3,7-dimethyloct-6-en-1-ol*) which is similar to DEET (*Diethyltoluamide*) in inhibiting the mosquito's olfactory sensor against an attractive aroma in the human body, namely carbon dioxide and lactic acid. Then the purple eggplant peel which is rich in minerals and vitamin E which is very good for the skin. Both of these ingredients function to maintain skin moisture. In addition, purple eggplant peel also contains anthocyanin compounds which act as anti-aging and to ward off free radicals and phytonutrients which are effective in soothing the skin. The purpose of this study was to make a mosquito repellent combination of lemongrass and purple eggplant peel which is safe to apply repeatedly in a day, and to determine the best concentration of the three lotion preparation formulations. The method used was simple steam distillation of lemongrass essential oil, extract of purple eggplant peel, organoleptic test, pH value test, homogeneity test, spreadability test, and adhesion test. The results of this study were the lotion had a pH of 5, the homogeneity test showed a homogeneous mass of the lotion. The best concentration of anti-mosquito lotion combination of lemongrass and purple eggplant peel is 50:50. taking purple eggplant peel extract, organoleptic test, pH value test, homogeneity test, spreadability test, and adhesion test. The results of this study were the lotion had a

pH of 5, the homogeneity test showed a homogeneous mass of the lotion. The best concentration of anti-mosquito lotion combination of lemongrass and purple eggplant peel is 50:50. taking purple eggplant peel extract, organoleptic test, pH value test, homogeneity test, spreadability test, and adhesion test. The results of this study were the lotion had a pH of 5, the homogeneity test showed a homogeneous mass of the lotion. The best concentration of anti-mosquito lotion combination of lemongrass and purple eggplant peel is 50:50.

Keywords: *Lemongrass, purple eggplant peel, and lotion.*