

## Penggunaan ekstrak nicotiana tabacum l untuk sediaan cat anti-nyamuk aedes aegypti = Use of nicotiana tabacum l extract for anti aedes aegypti mosquito paint

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### Abstrak

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Penelitian ini bermaksud untuk memformulasikan cat anti nyamuk berbasis ekstrak daun tembakau bebas zat pyrethroids sehingga lebih aman untuk pengguna. Hasil formulasi cat Anti-nyamuk sesuai dengan SNI. Hasil uji efektivitas cat anti-nyamuk Aedes Aegypti menunjukkan dengan konsentrasi ekstrak tembakau antara 3-5 yang dapat membunuh setengah populasi nyamuk LC50 selama 2 jam, konsentrasi ekstrak tembakau antara 3-5 yang dapat membunuh setengah populasi nyamuk LC50 selama 4 jam, konsentrasi ekstrak tembakau 1-3 yang dapat membunuh setengah populasi nyamuk LC50 selama 6 jam, sedangkan konsentrasi ekstrak tembakau 0-1 dapat membunuh setengah populasi nyamuk LC50 selama 24 jam.

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This study intends to formulate mosquito repellent paints based tobacco leaf extracts, free pyrethroid substance, that are safe for the user. The active substance is added to the paint as a mosquito repellent is an extract of tobacco leaves. The result of Anti mosquito paint formulation in accordance with SNI. The results of anti Aedes Aegypti mosquito paint effectiveness test show that with 3 5 concentration of tobacco extract that can kill half the mosquito population LC50 for 2 hours, the concentration of tobacco extract between 3 5 can kill half the mosquito population LC50 during 4 hours, 1 3 tobacco extract concentration can kill half the mosquito population LC50 for 6 hours, while the concentration of 0 1 tobacco extract can kill half the mosquito population LC50 for 24 hours.