

## INTISARI

**KASRIYANI. 2013. UJI AKTIVITAS LOTION MINYAK DAUN ZODIA (*Evodia suaveolens* Scheff.) SEBAGAI REPELAN TERHADAP GIGITAN NYAMUK *Culex quinquefasciatus*. SKRIPSI. FAKULTAS FARMASI. UNIVERSITAS SETIA BUDI. SURAKARTA**

Zodia (*Evodia suaveolens*, Scheff) adalah suatu tanaman yang mengandung minyak atsiri pada daun. Minyak yang disuling dari daun tumbuhan ini mengandung linalool (46%) dan a-pinene (13,26%), linalool sendiri dikenal sebagai pengusir nyamuk. Penelitian ini bertujuan untuk mengetahui daya repelan daun zodia terhadap nyamuk *Culex quinquefasciatus*.

Metode penyulingan minyak atsiri daun zodia dilakukan dengan metode destilasi uap air. Hasil penyulingan minyak atsiri di campurkan dalam basis lotion yang dibuat empat seri konsentrasi untuk pengujian daya repelan (0%, 10%, 15%, 20%). Selanjutnya diujikan pada 50 ekor nyamuk *Culex quinquefasciatus*, pengamatan dilakukan selama 6 jam untuk melihat daya repelan pada masing-masing konsentrasi.

Minyak atsiri zodia (*Evodia suaveolens*, Scheff) dilihat dari hasil daya proteksi pada masing-masing konsentrasi. Sediaan lotion antinyamuk merk X yang sudah ada di pasaran sebagai kontrol positif mempunyai mempunyai daya repelan terhadap nyamuk. Daya repelannya lebih besar dibandingkan daya repelan minyak atsiri daun zodia (*Evodia suaveolens*, Scheff) .

Kata kunci: Lotion, Daun Zodia (*Evodia suaveolens*, Scheff), minyak atsiri, *Culex quinquefasciatus*, Repelan.

## ABSTRACT

**KASRIYANI. 2013. TEST OF LOTION ACTIVITY OF ZODIA LEAF OIL (*Evodia suaveolens* Scheff.) AS REPELAN TO *Culex quinquefasciatus* BITE. THESIS. FACULTY OF PHARMACY. SETIA BUDI UNIVERSITY. SURAKARTA**

Zodia (*Evodia suaveolens*, Scheff) is a plant that contains essential oils in the leaves. The oil distilled from the leaves of this plant contain linalool (46%) and a-pinene (13.26%), linalool itself known as a mosquito repellent. This study was aimed to determine the repelan of zodia leaves against *Culex quinquefasciatus*.

Distillation method of essential oil of zodia leaf was done by steam distillation method. The distillation result of essential oils mix in lotion base which created four concentration series for testing repelan (0%, 10%, 15%, 20%). Then tested on 50 *Culex quinquefasciatus*, observation was made during 6 hours to see repelan at each concentration.

Essential oils of zodia (*Evodia suaveolens*, Scheff) was seen from the results of protection at each concentration. Preparation of anti-mosquito lotion brand X was already on the market as a positive control had repelan against mosquitoes. The repelan was greater than essential oils of zodia leaves (*Evodia suaveolens*, Scheff).

Keywords: Lotions, Zodia Leaves (*Evodia suaveolens*, Scheff), Essential Oils, *Culex quinquefasciatus*, Repelan.