ABSTRAK

EFEKTIVITAS FERMENTASI LARUTAN GULA DAN RAGI SEBAGAI ATRAKTAN TERHADAP NYAMUK Aedes sp


Salah satu penyakit infeksi di Indonesia yang ditularkan melalui nyamuk Aedes sp adalah Demam Berdarah Dengue (DBD). Pengendalian populasi nyamuk secara mekanik dapat menggunakan trapping berisi atraktan. Tujuan penelitian untuk mengetahui efektivitas larutan fermentasi gula dan ragi sebagai atraktan terhadap nyamuk Aedes sp.

Desain penelitian eksperimental laboratorik sungguhan. Menggunakan hewan coba 1500 ekor nyamuk Aedes sp betina dewasa dengan enam kali pengulangan dan enam hari durasi pengamatan. Hewan coba yang terperangkap dan mati dalam trapping dihitung jumlahnya, kemudian dilakukan uji statistik Kruskal-Wallis dan uji Mann-Whitney $\alpha \leq 0.05$

Hasil rata – rata persentase jumlah hewan coba yang terperangkap dalam trapping pada berbagai konsentrasi gula dan durasi pengamatan yang berbeda, diuji statistik dengan Kruskal-Wallis didapatkan nilai $\alpha = 0.00$. Uji Mann-Whitney konsentrasi gula 35% dibandingkan dengan konsentrasi 0%, 5%, 15% dan 25% adalah $\alpha = 0.00$. Konsentrasi gula 35% menunjukkan hasil yang terbaik dengan rata – rata persentase 16,93%. Hari pengamatan I dan II dibandingkan dengan hari III, IV, V, dan VI adalah $\alpha = 0.05$ dengan persentase hewan coba yang tertangkap 14,80% dan 16,20%.

Simpulan penelitian, fermentasi larutan gula dan ragi efektif sebagai atraktan terhadap nyamuk Aedes sp.

Kata kunci : Aedes sp, atraktan, gula, ragi.
ABSTRACT

THE EFFECTIVITY OF SUGAR AND YEAST FERMENTATION SOLUTION AS Aedes sp. ATTRACTANT

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One of infectious diseases transmitted through Aedes sp mosquito is Dengue Hemorrhagic Fever (DHF). Mechanical mosquito population control can be performed with trappings filled with attractant.

Objective to determine the effectivity of sugar and yeast fermentation solution as Aedes sp mosquito attractant.

Experimental design true laboratory experiment. Performed with 250 female Aedes sp mosquito as research subject animal with six times repetition and six days of observation. Research animal trapped and died inside the trapping was counted, and the data was analyzed with Kruskal-Wallis statistical test and Mann-Whitney test with \( \alpha \leq 0.05 \).

Results the average percentage of trapped mosquito in the trapping with various sugar concentration and different duration of observational time, was tested with Kruskal-Wallis, the value of \( \alpha = 0.00 \). Mann-Whitney test for 35% sugar concentration compared with 0%, 5%, 15%, and 25% concentration was \( \alpha = 0.00 \). Thirty-five percent sugar concentration showed the best result with average percentage of 16.93%. Observation day I and II compared to III, IV, V, and VI showed \( \alpha = 0.05 \) with captured mosquito percentage of 14.80% and 16.20%.

Conclusion sugar fermentation and yeast solution was effective as Aedes sp mosquito attractant.

Keywords: Aedes sp., attractant, sugar, yeast
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