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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH**

Judul Jurnal Ilmiah (Artikel) : Identifikasi Molekuler dan Karakterisasi Morfologi Nilam (*Pogostemon* sp.) dari Kabupaten Batang, Provinsi Jawa Tengah

Penulis Jurnal Ilmiah/ Jumlah penulis : Aeldo Yudifian, Anto Budiharjo, Rejeki Siti Ferniah, Hermin Pancasakti Kusumaningrum* / 4 orang

Status Pengusul : Corresponding author

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b. Nomor ISSN : e-ISSN: 2548-611X & p-ISSN: 2442-2606
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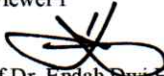
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Total = (100%)		25,00		24,51
Nilai pengusul = (40% x 24,51) = 9.804				9,804

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Semarang, 27 April 2023

Reviewer I



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- Kecukupan dan kemutakhiran data/informasi dan metodologi:** Data-data hasil penelitian cukup menunjukkan ada kebaruan informasi. Terdapat 33 buah pustaka dari 37 yang kurang dari 10 th terakhir. Sebanyak 32 dari 37 pustaka berupa Jurnal (ini menunjukkan proses review dan kecukupan pustakanya memenuhi). Ada unsur novelty dalam methodology yang memperlihatkan adanya inovasi dalam menghasilkan invensi dengan digunakannya paten sebagai salah satu rujukan. (skor=7,50)
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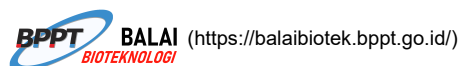
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**ANTIDIABETIC ACTIVITY OF LEAF EXTRACT OF *Clerodendrum fragrans* Vent Willd IN *Rattus novergicus* INDUCED BY ALLOXAN****Aktivitas Antidiabetes Ekstrak Daun *Clerodendrum fragrans* Vent Willd Pada *Rattus novergicus* Yang Diinduksi Aloksan****Murniaty Simorangkir¹, Erlintan Sinaga², Reninda Pasaribu¹, Saronom Silaban^{1*}**¹Dept. of Chemistry, Faculty of Mathematics and Natural Science, Universitas Negeri Medan, Medan 20221, Indonesia²Dept. of Biology, Faculty of Mathematics and Natural Science, Universitas Negeri Medan, Medan 20221, **Indonesia**

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ABSTRACT

Sarang banua plants are grown in Simalungun, North Sumatra, Indonesia, and have been used by the community as traditional medicinal plants. Sarang banua plant is a type of *Clerodendrum fragrans* Vent Willd, including the family Verbenaceae. This study aimed to determine the antidiabetic activity of the leaf extract of sarang banua (*C. fragrans* Vent Willd) in white male rats (*Rattus novergicus*) induced by alloxan. This study used a RAL design with seven treatments, namely (K0) standard feed, (K1) Na-CMC 0.5%), (K2) metformin, (K3) ethanol extract 100 mg/kg bw, 200 mg/kg bw (K4), 300 mg/kg bw (5), (K6) ethyl acetate extract 200 mg/kg bw and 300 mg/kg bw (K7). Groups K1 to K7 were induced by alloxan before being given treatment. Each treatment was replicated three times. The results showed that the application of leaf extract of the *C. fragrans* affected on reducing the blood glucose levels of alloxan-induced rats. The used of ethanolic extract of *C. fragrans* 100 mg/kg bw resulted in the highest percentage decrease in blood glucose (54.46 ± 5.60%) of hyperglycemic rats induced by alloxan, close to a positive control (56.63 ± 1.86%).

Keywords: alloxan, antidiabetic activity, *Clerodendrum fragrans* Vent Willd, Indonesian medicinal plants, *Rattus novergicus*

ABSTRAK

Tanaman sarang banua yang terdapat di Simalungun, Sumatera Utara, Indonesia telah dimanfaatkan oleh masyarakat sebagai tanaman obat tradisional. Tanaman Sarang banua (*Clerodendrum fragrans* Vent Willd), termasuk famili Verbenaceae. Penelitian ini bertujuan untuk mengetahui aktivitas antidiabetes ekstrak daun Sarang banua (*C. fragrans* Vent Willd) pada tikus putih jantan (*Rattus novergicus*) yang diinduksi aloksan. Penelitian ini menggunakan rancangan RAL dengan tujuh perlakuan yaitu (K0) pakan standar, (K1) Na-CMC 0,5%), (K2) metformin, (K3) ekstrak etanol 100 mg/kg bb, 200 mg/kg bb (K4), 300 mg/kg bb (5), (K6) ekstrak etilasetat 200 mg/kg bb dan 300 mg/kg bb (K7). Kelompok K1 sampai K7 diinduksi aloksan sebelum diberikan perlakuan. Hasil penelitian menunjukkan bahwa pemberian ekstrak daun *C. fragrans* berpengaruh terhadap penurunan kadar glukosa darah tikus yang diinduksi aloksan. Pemberian ekstrak etanol *C. fragrans* 100 mg/kg bb menghasilkan persentase penurunan glukosa darah tertinggi (54,46 ± 5,60%) tikus hiperglikemik yang diinduksi aloksan, mendekati kontrol positif (56,63 ± 1,86%).

Kata Kunci: aktivitas antidiabetes, aloksan, *Clerodendrum fragrans* Vent Willd, tanaman obat Indonesia, *Rattus novergicus*