

**PROFIL TOTAL PROTEIN NYAMUK *Aedes* sp. BERDASARKAN ENDEMISITAS
di KELURAHAN PEDURUNGAN LOR DAN PENGGARON KIDUL KOTA
SEMARANG**

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ABSTRAK

Demam Berdarah Dengue (DBD) merupakan penyakit menular yang disebabkan oleh virus dengue melalui gigitan vektor nyamuk *Aedes* sp. Kecamatan Pedurungan memiliki kelurahan dalam kategori daerah Endemis dan Non Endemis DBD. Pengendalian vektor nyamuk *Aedes* sp. secara kimia dengan insektisida pada daerah endemis DBD mengakibatkan vektor mengalami resistensi dan mutasi genetik yang akan mempengaruhi profil proteinnya. Tujuan penelitian ini untuk mengetahui profil total protein nyamuk *Aedes* sp. berdasarkan endemisitas di Kelurahan Pedurungan Lor dan Penggaron Kidul Kota Semarang berdasarkan Berat Molekul. Objek penelitian ini yaitu nyamuk *Aedes* sp. dari daerah endemis dan non endemis di Kelurahan Pedurungan Lor dan Penggaron Kidul Kota Semarang. Penelitian ini menggunakan metode isolasi protein dengan SDS-PAGE. Hasil dari elektroforesis sampel daerah Endemis terdapat pita protein sebanyak 15 dengan protein mayor sebanyak 5 pita dan protein minor sebanyak 7 pita dengan berat molekul antara 10,5 kDa sampai 21 kDa. Sedangkan daerah Non Endemis terdapat pita protein sebanyak 24 pita dengan protein mayor sebanyak 4 pita dan protein minor sebanyak 20 pita serta berat molekul antara 10,5 kDa sampai 210 kDa.

Kata kunci: ***Endemisitas, nyamuk Aedes sp., profil protein***

**TOTAL PROTEIN PROFILE MOSQUITO *Aedes* sp. BASED ON THE
ENDEMISITY VILLAGE OF THE OFFICE PEDURUNGAN LOR AND
PENGGARON KIDUL CITY OF SEMARANG**

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ABSTRACT

Dengue Hemorrhagic Fever (DHF) is an infectious disease caused by dengue virus through the bite of *Aedes* sp. mosquito vector. Pedurungan sub-district has village of office in category Endemic and Non-endemic DHF. Chemically control vector of *Aedes* sp. with insecticides is usually done in dengue endemic areas this results in vectors experiencing resistance and genetic mutations that will affect the protein profile. The purpose of this study was to determine the total protein profile of *Aedes* sp mosquitoes. based on endemicity in village of office Pedurungan Lor and Penggaron Kidul city of Semarang based on molecular weight. The object of this study is *Aedes* sp. from endemic and non-endemic areas in village of office Pedurungan Lor and Penggaron Kidul city of Semarang. This study used isolation protein method with SDS-PAGE. Results of electrophoresis samples of endemic areas contained 12 protein bands with major protein of 5 bands and a minor protein of 7 bands with a molecular weight of between 10.5 kDa to 45 kDa. While Non Endemis area there are 24 bands of protein with major protein of 4 bands and minor proteins of 20 bands with molecular weight between 10,5 kDa to 210 kDa.

Keywords: ***Endemicity, Aedes sp., protein profile***