

# **DAYA HAMBAT EKSTRAK METHANOL DAUN BINAHONG TERHADAP PERTUMBUHAN *Pseudomonas aeruginosa***

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## **ABSTRAK**

Daun binahong mengandung alkaloid, flavonoid, saponin, dan terpenoid yang dapat berfungsi sebagai antibakteri. Penelitian ini bertujuan untuk mengetahui daya hambat ekstrak methanol daun binahong terhadap pertumbuhan *P.aeruginosa* pada konsentrasi 25%, 50%, dan 75%. Jenis penelitian ini adalah penelitian eksperimen dengan metode sumuran. Daun yang digunakan dalam penelitian ini adalah daun binahong yang hijau, daun dikering anginkan, diblender hingga halus, diayak dengan ukuran 100 mesh, kemudian disoxhletasi menggunakan eter, ekstraksi dilakukan sampai menjadi pasta atau dikatakan konsentrasi 100% kemudian difreeze dryier. Uji antibakteri pada media MHA dan diinkubasi pada suhu 37°C selama 24 jam. Hasil penelitian menunjukkan bahwa daun binahong memiliki kemampuan dalam menghambat pertumbuhan *P.aeruginosa* pada konsentrasi 75% yaitu dengan diameter zona hambat sebesar 8,4 mm.

**Kata Kunci : Daya hambat, Daun binahong, *P.aeruginosa***

**INHIBITORY ACTION OF METHANOL EXTRACT OF HEARTLEAF  
MADERAVINE MADEVINE TO THE GROWTH OF *Pseudomonas*  
*aeruginosa***

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**ABSTRACT**

Heartleaf Maderavine Madevine contains alkaloids, flavonoids, saponins, and terpenoid that can act as antibacterial. The aim of this study was to determine the inhibitory of methanol extract of Heartleaf Maderavine Madevine to the growth of *P.aeruginosa* with concentration of 25%, 50% and 75%. This was an experimental research with well diffusion method. The leaf used in this study was green Heartleaf Maderavine Madevine, the leaves are dried, the leaf was blended until smooth and sieved with a 100 mesh size, It was soxhlet-extracted using ether, the extraction was done until it became a paste or 100% concentration then freeze-dried. The antibacterial test was performed on MHA medium and incubated at the temperature of 37°C for 24 hours. The result showed that Heartleaf Maderavine Madevine leaves did not have the ability to inhibit the growth of *Pseudomonas aeruginosa* at concentration of 75% with the inhibitory zone diameter by 8,4 mm.

**Keywords:** Inhibitory Action, Heartleaf Maderavine Madevine,  
*P.aeruginosa*