

ABSTRAK

IDENTIFIKASI BAKTERI ENDOFIT PADA BUAH CABAI RAWIT (*Capsicum annuum*. L) DENGAN METODE POLYMERASE CHAIN REACTION (PCR)

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Latar Belakang: Metode identifikasi bakteri endofit secara konvensional diketahui memiliki beberapa kelemahan, antara lain: hasil identifikasi yang kurang spesifik, karena memiliki banyak kemiripan ciri antar isolat, memakan waktu, serta kesulitan melakukan klasifikasi hingga ke tahap spesies. Identifikasi bakteri endofit berbasis genetik dengan PCR diharapkan dapat menjadi solusi bagi permasalahan yang ada. **Tujuan:** Melakukan identifikasi genetik bakteri endofit pada buah cabai rawit (*Capsicum annuum*. L) berbasis genetik. **Metode:** *Polymerase Chain Reaction* (PCR) menggunakan primer 8F dan 1492R. **Hasil:** Diperoleh 5 isolat bakteri endofit cabai rawit dengan kode BE1, BE2, BE3, BE4 dan BE5 dengan menggunakan primer 8F dan 1492R. **Kesimpulan:** Bakteri endofit yang berhasil diidentifikasi ada 5 isolat, yaitu: BE1, BE2, BE3, BE4 dan BE5.

Kata Kunci: *Capsicum annuum*. L, mikroba endofit, *polymerase chain reaction* (PCR).

ABSTRACT
IDENTIFICATION OF ENDO BACTERIA IN
***Capsicum annum* USING POLYMERASE CHAIN REACTION**
(PCR) METHOD

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Background: Conventional methods of identify endophytic bacteria are known to have several weaknesses, among others: the results of identification that are less specific, because they have many similarities in characteristics between isolates, are time consuming, and have difficulties in classification up to the species stage. Identification of genetic-based endophytic bacteria by PCR method is expected to be a solution to existing problems. **Objective:** This study was conducted to identify endophytic bacteria of *Capsicum annum. L* genetically based. **Method:** Polymerase Chain Reaction (PCR) using 8F and 1492R primers. **Results:** Obtained 8 isolates endophytic bacteria of *Capsicum annum. L* with codes BE1, BE2, BE3, BE4 and BE5 **Conclusion:** Endophytic bacteria that were identified were 5 isolates, namely: BE1, BE2, BE3, BE4 and BE5.

Keywords: *Capsicum annum. L*, endophytic microbes, Polymerase Chain Reaction (PCR).