

**UJI MIC (*Minimum Inhibitory Concentration*) EKSTRAK METANOL
JAMUR TIRAM MERAH MUDA (*Pleurotus flabellatus*) TERHADAP
PERTUMBUHAN BAKTERI *Pseudomonas aeruginosa***

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ABSTRAK

P. aeruginosa adalah salah satu penyebab terpenting infeksi nosokomial. Jamur tiram merah muda (*Pleurotus flabellatus*) mengandung banyak manfaat diantaranya sebagai antibakteri, antiinflamasi, antitrombotik, dan bahkan antitumor. Jamur tiram merah muda mengandung beberapa senyawa bioaktif antara lain flavanoid, fenolik, terpenoid, dan steroid. Tujuan penelitian ini untuk mengetahui aktivitas antibakteri ekstrak jamur tiram merah muda terhadap pertumbuhan *P. aeruginosa*. Ekstraksi penelitian ini menggunakan metode maserasi dengan pelarut metanol. Aktivitas antibakteri dievaluasi dengan metode Kirby-bauer, sedangkan penentuan nilai MIC dengan metode dilusi. Hasil penelitian menunjukkan bahwa ekstrak jamur tiram merah muda dapat menghambat pertumbuhan *P. aeruginosa* pada konsentrasi 200 mg/200 μ L dengan diameter zona hambat 4,0 mm dan nilai MIC pada konsentrasi 50 mg/100 μ L.

Kata kunci: Aktivitas antibakteri, Ekstrak metanol, *P. flabellatus*, *P. aeruginosa*.

MIC (Minimum Inhibitory Concentration) Test of Methanol Extract in Pink Oyster Mushroom (*Pleurotus flabellatus*) on *Pseudomonas aeruginosa* Bacterial Growth

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ABSTRACT

P. aeruginosa is one of the most important causes of nosocomial infection. Pink oyster mushroom (*Pleurotus flabellatus*) contains of many benefits including as antibacterial, antiinflammatory, antithrombotic, and even anti tumor. Pink oyster mushroom contain of several bioactive compounds including flavonoids, phenolics, terpenoids, and steroids. The purpose of this research was to determine the antibacterial activity of pink oyster mushroom extract on the growth of *P. aeruginosa*. The extraction of this research used maceration method with methanol solvent. The anti bacterial activity was evaluated by the Kirby-bauer method, while the determination of MIC values by the dilution method. The result showed that pink oyster mushroom extract could inhibit the *P. aeruginosa* growth at a concertation of 200mg/200 μ L with an inhibitory diameter zone of 4.0 mm and MIC at 50 mg/100 μ L concentration.

Keywords: Antibacterial activity, Methanol extract, *P. flabellatus*, *P. aeruginosa*.

