

ABSTRAK

Latar Belakang: Penyakit akibat infeksi dimana salah satu penyebabnya adalah *Staphylococcus aureus* merupakan salah satu masalah terbesar yang dihadapi saat ini. Pengobatan dengan menggunakan antibiotik golongan *penicillin* cenderung akan menimbulkan adanya resistensi serta efek samping sehingga masyarakat lebih memilih mengatasinya dengan cara swamedikasi atau penggunaan bahan tradisional seperti daun sirih. Tujuan penelitian untuk mengkaji pengaruh ekstrak daun sirih hijau (*Piper betle L.*) dalam pertumbuhan *Staphylococcus aureus* terhadap aktivitas antibakteri dan pada konsentrasi berapa yang paling optimal. **Metode:** Metode difusi sumuran. **Hasil:** Diperoleh rerata diameter zona hambat 9,82 mm, 9,11 mm, 9,28 mm, dan 9,01 mm pada konsentrasi 5%, 10%, 15%, dan 20% secara berurutan. **Kesimpulan:** Adanya aktivitas antibakteri di keseluruhan konsentrasi serta konsentrasi paling optimal adalah 5% sebesar 9,88 mm.

Kata Kunci: Antibakteri, Daun Sirih, Penyakit Akibat Infeksi, *Staphylococcus aureus*

ABSTRACT

Background: Diseases due to infection where one of the causes is *Staphylococcus aureus* is one of the biggest problems faced today. Treatment using penicillin antibiotics tends to cause resistance and side effects, so people prefer to overcome them by means of self-medication or the use of traditional ingredients such as betel leaf. The purpose of the study was to examine the effect of green betel leaf extract (*Piper betle* L.) on the growth of *Staphylococcus aureus* on the antibacterial activity. **Methods:** This study is experimental research in vitro using a well diffusion method. The betel leaf was extracted using the maceration method and made into concentrations of 5%, 10%, 15%, and 20%. **Results:** The average diameter of the inhibition zones was 9.82 mm, 9.11 mm, 9.28 mm, and 9.01 mm at concentrations of 5%, 10%, 15%, and 20%, sequentially. **Conclusion:** The antibacterial activity of betel leaf extract in the overall concentration and the most optimal concentration was 5% at 9.82 mm.

Keywords: Antibacterial, *Piper betle*, Infectious Disease, *Staphylococcus aureus*