

BAB 5

KESIMPULAN DAN SARAN

5.1 Kesimpulan

1. Ekstrak etanol daun beluntas memiliki aktivitas penghambatan biofilm *Staphylococcus aureus* dengan Nilai MBIC₅₀ <2,044 mg/mL.
2. Hasil skrining fitokimia menunjukkan bahwa ekstrak etanol daun beluntas mengandung senyawa alkaloid, flavonoid, tanin, saponin dan sterol.

5.2 Saran

1. Perlu dilakukan penelitian lebih lanjut dengan menurunkan konsentrasi ekstrak daun beluntas yang lebih rendah dari 15,044 mg/mL untuk memperoleh nilai MBIC₅₀ yang lebih akurat.
2. Perlu dilakukan pengujian MBEC (*Minimum Biofilm Eradication Concentration*) untuk mengevaluasi efektivitas ekstrak daun beluntas terhadap biofilm matang.
3. Perlu dilakukan fraksinasi dan isolasi senyawa aktif dari ekstrak daun beluntas untuk mengetahui senyawa paling berperan terhadap aktivitas antibiofilm *Staphylococcus aureus*.
4. Perlu dilakukan pengujian aktivitas antibiofilm terhadap bakteri lain untuk mengetahui spektrum aktivitas antibiofilm ekstrak daun beluntas.

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