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KAJIAN AKTIVITAS ANTIBAKTERI EKSTRAK ETANOL BIJI, KULIT DAN DAUN ALPUKAT (*Persea americana Mill*) TERHADAP *Staphylococcus aureus*

ABSTRAK

Latar Belakang: Biji, kulit, dan daun alpukat (*Persea americana Mill*) merupakan salah satu tanaman yang dapat digunakan sebagai antibakteri. Kandungan kimia flavonoid, alkaloid, tanin, saponin dan phenol berpotensi menghambat pertumbuhan bakteri. *Persea americana Mill* sering digunakan sebagai obat tradisional untuk berbagai penyakit, salah satunya dalam pengobatan berbagai infeksi yang disebabkan oleh bakteri *Staphylococcus aureus*. Tujuan penelitian untuk mengetahui aktivitas antimikroba terhadap bakteri *Staphylococcus aureus* melalui pengamatan zona hambat.

Metode: Jenis penelitian menggunakan metode non eksperimental, pengumpulan data dengan menggunakan teknik penggabungan dan membandingkan data darikelima artikel yang digunakan.

Hasil: Berdasarkan hasil penelitian ekstrak biji, kulit dan daun alpukat (*Persea americana Mill*) zona hambat yang paling tinggi dalam menghambat *Staphylococcus aureus* yaitu rata – rata pada konsentrasi 100%. Hasil uji aktivitas antibakteri melalui metode difusi cakram di dapatkan hasil pada ekstrak etanol kulit alpukat memiliki aktivitas antibakteri kategori sangat kuat dengan zona hambat 16,40 mm - 20,06 mm, diikuti dengan biji alpukat memiliki aktivitas antibakteri kategori kuat dengan zona hambat 15 mm – 16,04 mm, dan daun alpukat memiliki aktivitas antibakteri kategori kuat dengan zona hambat 10,68 mm.

Kesimpulan: Ekstrak etanol biji, kulit, dan daun alpukat (*Persea americana Mill*.) memiliki aktivitas antibakteri terhadap bakteri *Staphylococcus aureus*. Ekstrak biji, kulit dan buah alpukat memiliki kandungan senyawa alkaloid, flavonoid, tanin, saponin, dan phenol dimana senyawa - senyawa tersebut memiliki potensi sebagai antibakteri.

Kata Kunci: *Persea americana Mill*, Ekstrak, Antibakteri, *Staphylococcus aureus*

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STUDY OF THE ANTIBACTERIAL ACTIVITY OF THE ETHANOL EXTRACT OF AVOCADO SEEDS, SKINS AND LEAVES (*Persea americana Mill*) AGAINST *Staphylococcus aureus*.

ABSTRACT

Background: Avocado seeds, skins, and leaves (*Persea americana Mill*) are plants that can be used as antibacterial agents. The chemical content of flavonoid, alkaloid, tannins, saponin, and phenols has the potential to inhibit bacterial growth. *Persea americana Mill* is often used as a traditional medicine for various diseases, one of which is in the treatment of various infections caused by the *Staphylococcus aureus* bacteria. The aim of this research was to determine the antimicrobial activity of *Staphylococcus aureus* by observing the inhibition zone.

Methods: This type of research uses non experimental methods, data collection using a combination of techniques and comparing data from the five articles used.

Results: Based on the results of research, the extracts of the seeds, skins and leaves of apukat (*Persea americana Mill*), the zone of inhibition that had the highest inhibition of *Staphylococcus aureus* was at an average concentration of 100%. The results of the antibacterial activity test through the disc diffusion method showed that the ethanol extract of avocado peel had very strong antibacterial activity with an inhibition zone of 16.40 mm - 20.06 mm, followed by avocado seeds having a strong category of antibacterial activity with an inhibition zone of 15 mm - 16.04 mm, and avocado leaves have strong antibacterial activity with an inhibition zone of 10.68 mm.

Conclusion: The ethanol extract of avocado seeds, skins, and leaves (*Persea americana mill*) has antimicrobial activity against *Staphylococcus aureus* bacteria. Avocado seeds, skin, and leaf extracts contain alkaloid compounds, flavonoid, tannins, saponins, and phenol where these compounds have potential as antibacterial.

Keyword : *Persea americana Mill*, Extract, Antibacterial, *Staphylococcus aureus*