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ABSTRAK

Perbedaan Daya Hambat Formula Obat Kumur Daun Sirih dengan Formula Obat Kumur Lidah Buaya Terhadap Pertumbuhan Bakteri *Staphylococcus aureus*

vi + 52 Halaman + 5 gambar + 5 tabel + 2 lampiran

Latar Belakang: Dalam 30 tahun terakhir mulai berkembang obat kumur komersial yang khusus di formulasikan untuk mengontrol plak supragingiva dan mengatasi penyakit gingiva. Pemanfaatan tanaman sebagai obat telah banyak digunakan masyarakat pada saat ini. Salah satu tanaman yang banyak dimanfaatkan masyarakat sebagai obat adalah daun sirih dan lidah buaya. Kandungan *saponin*, *tanin*, *flavonoid* pada daun sirih dan lidah buaya merupakan zat aktif yang berfungsi sebagai antibakteri. *Staphylococcus aureus* adalah jenis bakteri anaerob yang paling sering ditemukan pada rongga mulut dan merupakan penyebab utama infeksi pada rongga mulut.

Tujuan penelitian: untuk mengetahui perbedaan daya hambat antibakteri formula obat kumur daun sirih dengan formula obat kumur lidah buaya terhadap pertumbuhan bakteri *Staphylococcus aureus*.

Metode: penelitian eksperimental laboratorium. Penelitian ini menggunakan 32 sampel uji. Cakram yang telah direndam formula obat kumur daun sirih dan formula obat kumur lidah buaya diletakkan ke cawan petri yang berisi *Mueller Hinton Agar* yang telah diswab bakteri *Staphylococcus aureus* lalu diinkubasi selama 24 jam.

Hasil: diameter rata-rata zona hambat formula obat kumur daun sirih adalah 6,1 mm dan formula obat kumur lidah buaya adalah 12,1 mm.

Kesimpulan: formula obat kumur lidah buaya lebih efektif dibandingkan dengan formula obat kumur daun sirih dalam menghambat pertumbuhan bakteri *Staphylococcus aureus*

Kata kunci: formula obat kumur daun sirih, formula obat kumur lidah buaya, daya hambat, *Staphylococcus aureus*

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ABSTRACT

The Difference Inhibition Activity of Beatle's Leaves Mouthwash Formula and Aloe Vera Mouthwash Formula Against Staphylococcus Auerus Growth

Vi + 52 pages + 5 pictures + 5 Tables + 2 Attachements

Background: *In the past 30 years has grown a commercial mouthwash specially formulated to supragingiva plaque control and overcome gingiva disease. The use of plants as medicine has been used at the people for some time. One of the plants that many people used as medicine is a beetle's leaf and aloe vera. Saponins, tannins, flavonoids on beetle's leaves and aloe vera is an active substance that acts as an antibacterial. Staphylococcus aureus is a type of anaerobic bacteria are most commonly found in the oral cavity and is a major cause of infection in the oral cavity.*

Purpose: *to determine differences in inhibition antibacterial of beetle's leaves mouthwash formula with mouthwash formula of aloe vera on the against Staphylococcus aureus growth.*

Methods: *The characteristic of this research was laboratory experimental. This research using 32 samples Discs that have been soaked in beetle's leaves mouthwash formula and aloe vera mouthwash formula is put into Petri dishes containing Mueller Hinton Agar has been swab by Staphylococcus aureus bacteria and incubated for 24 hours.*

Result: *The diameter average of inhibition zone mouthwash formula is 6.1 mm for beetle's leaves and for aloe vera mouthwash formula is 12.1 mm.*

Conclusion: *Aloe vera mouthwash formula is more effective than mouthwash formula beetle's leaves in inhibiting the growth of Staphylococcus aureus*

Key Word: *Beatle's Leaves Mouthwash Formula, Aloe Vera Mouthwash Formula, Staphylococcus Auerus*