

Efek ekstrak propolis dan permen mengandung propolis terhadap pertumbuhan candida albicans ATCC 10231 = Effects of propolis extract and propolis candies against candida albicans ATCC 10231 growth

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Abstrak

Latar belakang: Propolis memiliki efek antifungal. Universitas Indonesia sedang mengembangkan permen mengandung propolis yang diduga dapat menghambat pertumbuhan C.albicans.

Tujuan: Penelitian ini bertujuan untuk mengetahui efek ekstrak propolis dan permen propolis terhadap pertumbuhan C.albicans.

Metode: Kadar Hambat Minimum (KHM) dan Kadar Bunuh Minimum (KBM) ekstrak propolis diuji menggunakan metode spektrofotometri serta jumlah koloni C.albicans pasca pemaparan ekstrak dan permen propolis dihitung secara langsung.

Hasil: Nilai KHM dicapai pada konsentrasi 10%, nilai KBM dicapai pada konsentrasi 15%; serta terdapat penurunan jumlah koloni jamur pasca pemaparan ekstrak dan permen propolis.

Kesimpulan: Ekstrak dan permen propolis terbukti efektif menghambat pertumbuhan C.albicans.

.....Background: Propolis has antifungal effect. Universitas Indonesia has been developing propolis candy which can inhibit C.albicans growth.

Objective: This research was aimed to analyze effect of propolis extract and candies to C.albicans growth.

Methods: After C.albicans were exposed to propolis extract and candies, Minimum Inhibitory Concentration (MIC) and Minimum Bactericidal Concentration (MBC) were determined by spectrophotometry and post-exposure colonies of C.albicans were counted.

Result: MIC of propolis extract against C.albicans were determined at 10% and MBC at 15%, also the amount of C.albicans colonies were decreased after propolis extract and candies exposure.

Conclusion : Propolis extract and candies were effective to inhibit C.albicans growth.