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#1415 Summary

SUMMARY REVIEW EDITING

Submission

Authors	Sisilia Rosmala Dewi, Hiany Salim, Djuniasty Karim
Title	EFEK PEMBERIAN PERASAN BAWANG PUTIH LANANG (<i>Allium sativum</i> (L.) TERHADAP DAYA HAMBAT PERTUMBUHAN <i>Candida albicans</i> , <i>Streptococcus mutans</i> dan <i>Propionibacterium acnes</i>
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Title and Abstract

Title EFEK PEMBERIAN PERASAN BAWANG PUTIH LANANG (*Allium sativum* (L.) TERHADAP DAYA HAMBAT PERTUMBUHAN *Candida albicans*, *Streptococcus mutans* dan *Propionibacterium acnes*

Abstract Solo garlic is used as a traditional medicine with alisin suspected to have a broad spectrum of antifungal and antibacterial activity. This study determines the potential of garlic juice in inhibiting the growth of *Candida albicans*, *Streptococcus mutans*, and *Propionibacterium acnes* along with their optimal concentration. The juice is extracted using a juicer in a concentration of 25%, 50%, and 100%, then tested through the agar diffusion method. The results show an average of inhibition at concentrations of 25%, 50% and 100% for *Candida albicans* of 31.33 mm, 31 mm and 33.66 mm, the *Streptococcus mutans* of 27 mm, 31.6 mm and 37 mm and the *Propionibacterium acnes* of 28 mm, 32.6 mm and 37 mm. Therefore, the concentration of freshly garlic juice of 25%, 50%, and 100% inhibits the growth of *Candida albicans*, *Streptococcus mutans*, and *Propionibacterium acnes*. However, the most optimal concentration is 100%

Keywords: *Inhibitory Power, Solo Garlic, Candida albicans, Streptococcus mutans: Propionibacterium acnes*

Bawang Putih Lanang biasa digunakan sebagai obat tradisional yang mengandung alisin yang diduga memiliki spektrum luas terhadap aktivitas antifungal dan antibakteri. Penelitian ini bertujuan mengetahui potensi perasan bawang putih lanang (*Allium sativum* L.) dapat menghambat pertumbuhan bakteri *Candida albicans*, *Streptococcus mutans*, dan *Propionibacterium acnes* beserta konsentrasi yang optimalnya. Bawang putih Lanang diambil sarinya dengan menggunakan metode perasan menggunakan juicer lalu dibuat dalam konsentrasi 25%, 50% dan 100% kemudian diuji menggunakan metode difusi agar. Hasil yang diperoleh memperlihatkan rata-rata daya hambat pada konsentrasi 25%, 50% dan 100% terhadap *Candida albicans* sebesar 31,33 mm, 31 mm dan 33,66 mm, pada *Streptococcus mutans* sebesar 27 mm, 31,6 mm dan 37mm dan pada *Propionibacterium acnes* sebesar 28 mm, 32,6 mm dan 37 mm sehingga dapat disimpulkan bahwa konsentrasi perasan bawang putih lanang (*Allium sativum* L.) sebesar 25%, 50% dan 100% dapat menghambat pertumbuhan bakteri *Candida albicans*, *Streptococcus mutans*, dan *Propionibacterium acnes* dan konsentrasi yang paling optimal sebesar 100%,

Kata kunci : daya hambat, bawang putih tunggal, *Candida albicans*, *Streptococcus mutans* :*Propionibacterium acnes*

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Agencies —

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Authors Sisilia Rosmala Dewi, Hiany Salim, Djuniasty Karim
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