

ABSTRACT

Jannah, Devita Aslihatul. 2013. Effectiveness trials Whitish Herb on growth of fungus *Candida albicans*. Thesis, Department of Biology, Faculty of Science and Technology of the State Islamic University of Maulana Malik Ibrahim Malang.

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Whitish Herb in Indonesia have seen variations of its components. whitish herb Madura using pomegranate peel and bitter herbs. Sidoarjo with whitish medicinal use of betel leaf, areca nut and turmeric white. Both of these herbs contain natural ingredients such as tannins, flavonoids, essential oils, alkaloids and saponins are able to denaturation of proteins that inhibit growth and cause cell death.

This study aimed to determine the effect of the type of herbs whitish growth and decay fungus *Candida albicans* cell wall. The study was conducted at the Laboratory of Microbiology Department of Biology, Faculty of Science and Technology College of Islamic Affairs Maulana Malik Ibrahim Malang in May to June 2013. This is an experimental study using a completely randomized design (CRD) using 5 treatments with 4 replications. The treatment used is control, herb Sidoarjo with a concentration of 50% and 100%, herb Madura with a concentration of 50% and 100%. Fungus used was *Candida albicans*. Research data include the inhibition zone and damage to the cell wall. Data were analyzed using ANOVA with advanced Least Significant Difference test (LSD) 1%.

The results showed that the concentration of herbs whitish Sidoarjo 100% produce zone of inhibition on *Candida albicans* by 15.5 mm. This study also shows that fungi are given herbal whitish Sidoarjo concentration of 100% damage cell walls so that when stained with crystal violet colored whitish pale in comparison to the other herbs. This suggests that the most effective herb vaginal discharge is whitish Sidoarjo herbs with 100% concentration.