ABSTRACT

ANTIFUNGI ACTIVITY TEST OF METHANOL EXTRACT OF NEEM LEAVES (*Azadirachta indica* A. Juss) AGAINST *Candida albicans* BY DIGESTI METHOD

Muhimmah Falashifah

Fungi are one of the causes of infectious diseases, especially in tropical countries. Fungal skin disease is one of the skin diseases that often appears in Indonesian society. *Candida albicans* can attack through the mouth, vagina, lungs, nails, skin. Candidiasis can be found throughout the world, can attack all ages, both men and women. Treatment of this disease is possible use natural or chemical ingredients, but currently more people in Indonesia use them natural ingredients because they do not cause side effects, are safe and easy to obtain. This test method is an experimental method which aims to determine the ability of 80% methanol extract of neem leaves (*Azadirachta indica* A. Juss.) to inhibit the growth of *Candida albicans*. Neem contains alkaloids, flavonoids, phenolics, saponins, triterpenoids, steroids and sterols. The antifungal activity test used 80% neem methanol extract with 5 concentrations (10,000 µg/ml, 5,000 µg/ml, 1,000 µg/ml, 500 µg/ml, 100 µg/ml). The results showed that only a concentration of 10,000 µg/ml was able to inhibit and kill microbes which produced an inhibitory zone diameter of 8.86 mm, while concentrations of 5,000 µg/ml, 1,000 µg/ml, 500 µg/ml and 100 µg/ml were not able to form zone of inhibition in the test culture. It can be concluded that neem leaf extract (*Azadirachta indica* A. Juss) extracted using 80% methanol solvent with a concentration of 10,000 µg/ml is able to inhibit the growth of *Candida albicans.*

Keywords : *Antifungi activity, Candida albicans, Azadirachta indica* A. Juss.