

ABSTRACT

Candida that infects the oral mucosa can produce different clinical manifestations and histopathological manifestations. One of the oral candidiasis drugs is voriconazole, but use of this drug can cause side effects. Alternative treatment is to use natural ingredients, one of which is broccoli. Broccoli itself comes from the Brassicaceae family and has secondary metabolites, namely Isothiocyanates (ITC), which are produced by the hydrolysis of glucosinolates, which are found in cruciferous plants from the Brassicaceae family. ITC has the advantage of having antibacterial, antifungal, antiviral, anti-cancer and chemopreventive bioactivity associated with moderate toxicity to normal human cells. This study aims to determine the antifungal effectiveness of broccoli extract against *Candida albicans* at concentrations of 10%, 30% and 60%. Broccoli was extracted by maceration using 96% ethanol solvent. The research method used was a Laboratory Experiment with a Post Test Only Control Group Design. Measurement of the diameter of the inhibition zone can be seen in the inhibition zone diagram image. The results of the study showed that at concentrations of 10% and 30% there was no inhibitory power and at a concentration of 60% an average inhibitory force was found to be 0.6 mm in the weak category. Conclusion Broccoli extract (*Brassica oleracea* var. *Italica*) was not effective against the fungus *Candida albicans*.

Keywords: *Broccoli (Brassica oleracea* var. *Italica)*, *Candida albicans*, Antifungal.

Halaman Pengesahan

SKRIPSI

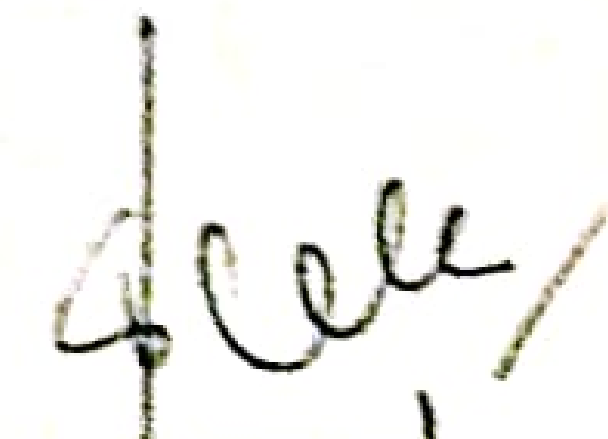
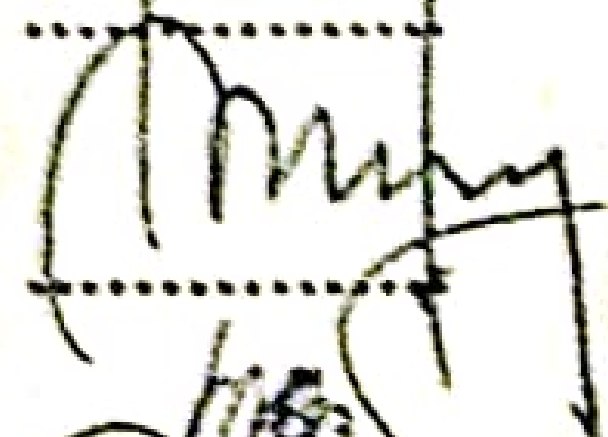


**UJI EFEKTIVITAS ANTIJAMUR EKSTRAK BROKOLI
(BRASSICA OLERACEA VAR. ITALICA) TERHADAP
CANDIDA ALBICANS**

Oleh:

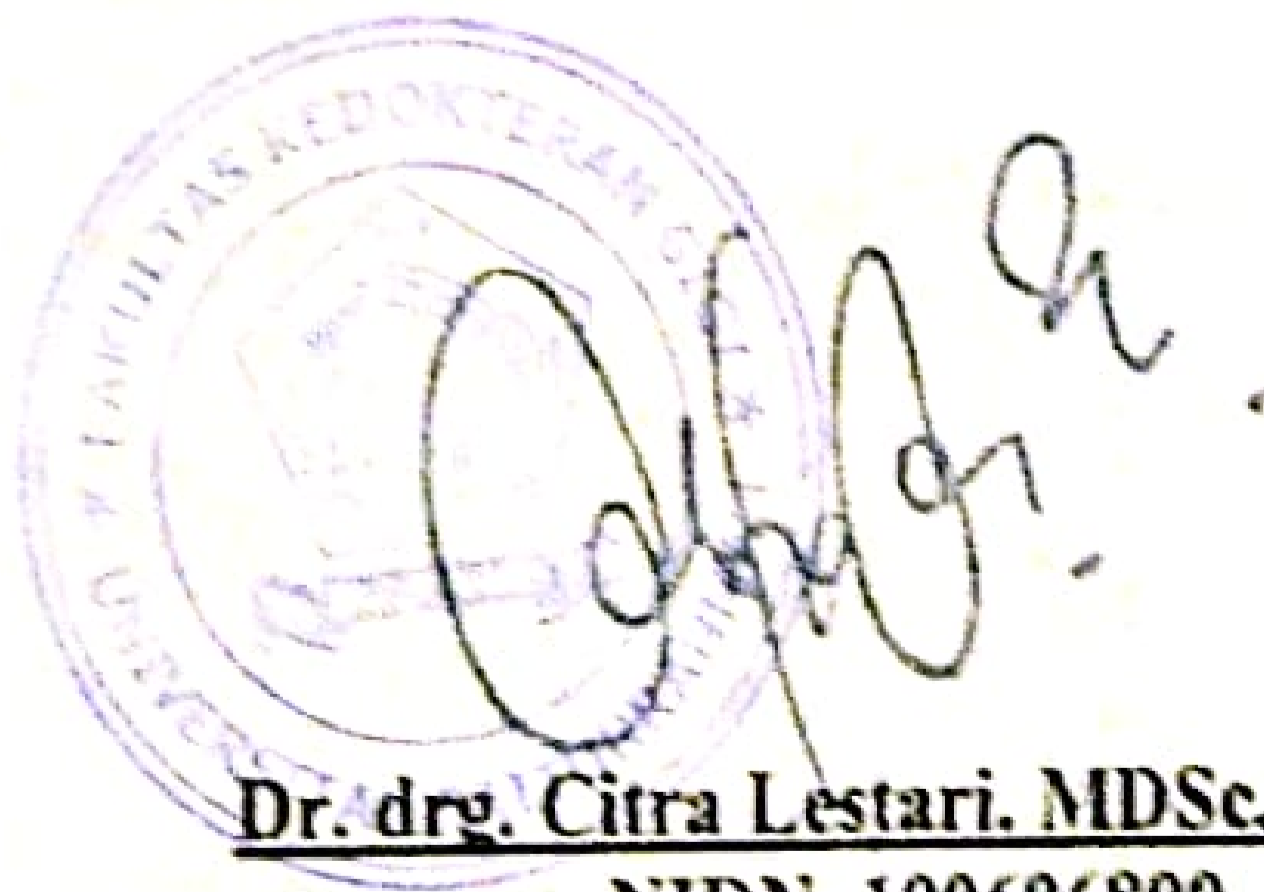
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Telah dipertahankan didepan tim penguji pada tanggal 23 Januari 2024
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