

**UJI AKTIVITAS ANTIFUNGI AIR PERASAN UMBI WORTEL (*Daucus carota* L.) TERHADAP *Aspergillus niger* DAN *Candida albicans* ATCC 10231  
SECARA  
IN VITRO**

**ABSTRAK**

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Telah dilakukan penelitian untuk mengetahui aktivitas antifungi, Konsentrasi Hambat Minimum (KHM), dan kesetaraan aktivitas antifungi dengan ketokonazol dari air perasan umbi wortel (*Daucus carota* L.) terhadap *Aspergillus niger* dan *Candida albicans* ATCC 10231 secara in vitro. Pengujian dilakukan menggunakan metode difusi agar dengan sumur. Hasil menunjukkan bahwa air perasan umbi wortel memiliki aktivitas antifungi terhadap *Candida albicans* ATCC 10231 pada konsentrasi 25%, 37,5%, 50%, 75%, dan 100% sedangkan air perasan umbi wortel dalam penelitian ini tidak memiliki aktivitas antifungi terhadap *Aspergillus niger* pada konsentrasi 5%, 6,25%, 12,5%, 25%, 50%, 75%, dan 100% sehingga tidak dapat ditentukan Konsentrasi Hambat Minimum (KHM) dan kesetaraan aktivitas antifungi dengan ketokonazol. Konsentrasi Hambat Minimum (KHM) yang dimiliki oleh air perasan umbi wortel adalah pada konsentrasi 25% dengan diameter hambat 0,93 cm. Kesetaraan aktivitas antifungi 1 mg air perasan umbi wortel terhadap ketokonazol adalah  $2,2 \times 10^{-7}$  mg.

**Kata kunci:** air perasan umbi wortel, antifungi, *Candida albicans* ATCC 10231, *Aspergillus niger*, *Daucus carota* L.

**TESTING OF ANTIFUNGAL ACTIVITIES OF THE CARROT TUBER JUICES (*Daucus carota* L.) AGAINST *Aspergillus niger* AND *Candida albicans* ATCC 10231 IN VITRO**

**ABSTRACT**

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The research has been conducted to determine the antifungal activities, Minimum Inhibitory Concentration (MIC), and the value of compared antifungal activity with ketoconazole from the carrot tuber juices (*Daucus carota* L.) againsts *Aspergillus niger* and *Candida albicans* ATCC 10231 in vitro. The test has been conducted by agar diffusion method with perforation. The result show that the carrot tuber juices have antifungal activities againsts *Candida albicans* ATCC 10231 at concentration of 25%, 37,5%, 50%, 75%, and 100% but carrot tuber juices in this researched is doesn't have antifungal activities againsts *Aspergillus niger* at concentration of 5%, 6,25%, 12,5%, 25%, 50%, 75%, and 100% so of that Minimum Inhibitory Concentration (MIC) and the value of compared antifungal activity with ketoconazole can't to be determined. Minimum Inhibitory Concentration (MIC) of the carrot tuber juices is 25% with 0,930 cm of diameter inhibitory. The value of compared antifungal activity 1 mg the carrot tuber juices with ketoconazole is  $2,2 \times 10^{-7}$  mg.

**Keywords:** the carrot tuber juices, antifungal, *Candida albicans* ATCC 10231, *Aspergillus niger*, *Daucus carota* L.