

Phytochemical Composition and Antifungal Efficacy of Phaleria macrocarpa (Mahkota Dewa Fruit) Extract against Candida albicans

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Abstract

The study aimed to determine the phytochemical composition and anti-fungal efficacy of *Phaleria macrocarpa* (Mahkota Dewa) fruit extract against *Candida albicans*. The results of the phytochemical analysis revealed that Flavonoids and Triterpenes are the abundant followed by Tannins with *moderate* content. Traces of sterols, glycosides, and alkaloids were found. However, tests for the presence of saponins revealed that there were no traces of saponins in the extract. The antifungal susceptibility test results also revealed that *P. Macrocarpa* fruit extract, had no inhibitory activity and no reactivity against the test organism *Candida albicans*. The study recommends that a high level of concentration of the *P. Macrocarpa* fruit extract must be used for the antifungal susceptibility tests. Furthermore, it recommends that future researchers must develop their own scientific methods in preparing the extract.

Keywords: *phaleria macrocarpa, candidas albicans, efficacy*