

Antifungal activity of curcuma xanthorrhiza and curcuma soloensis extracts and fractions

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First Author	
Last Author	
Authors	Diastuti, H; Asnani, A; Chasani, M;
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Abstract	In this research, the antifungal activity of acetone extracts, and fractions of n-hexane, chloroform and ethylacetate of <i>C. xanthorrhiza</i> and <i>C. soloensis</i> rhizomes have been conducted. The antifungal activity was carried out by using agar dilution method and evaluated against <i>Aspergillus fumigatus</i> , <i>Candida albicans</i> , <i>Epidermophyton</i> sp, <i>Penicillium</i> sp and <i>Trichophyton rubrum</i> . The result showed that acetone extract and chloroform fraction of <i>C. xanthorrhiza</i> exhibited significant activities against <i>A. fumigatus</i> , <i>Epidermophyton</i> sp, <i>Penicillium</i> sp and <i>T. rubrum</i> with MIC 12.5-25.0 μ g/mL. The n-hexane fraction of <i>C. xanthorrhiza</i> showed significant activity on <i>Epidermophyton</i> sp with MIC 12.5 μ g/mL. Meanwhile, the extract and fraction of <i>C. soloensis</i> showed moderate and weak activities against all tested fungal with MIC 50-200 μ g/mL.
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Author	Dr HARTIWI DIASTUTI, S.Si, M.Si