

ABSTRACT

Isolation and Characterization of Metabolite from Ethyl Acetate Extract of Endophytic Fungi *Cladosporium oxysporum* Isolated From *Alyxia reinwardtii* BL

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Cladosporium oxysporum, the endophytic fungi, was isolated from *Alyxia reinwardtii*. The antimicrobial activity was performed by the fractions of ethyl acetate extract from metabolites of this fungi. Fraction 3 is one of the fractions from ethyl acetate extract that further separation into 4 sub-fractions with *Sephadex* LH 20. Sub-fraction 3.1, by TLC analyzed showed that there are terpenoids or steroids compounds from the violet color results which were resulted with anisaldehyde-H₂SO₄ reagents and active at 254 nm UV. The other fraction, fraction 8 undergo the same treatment and resulted in 6 sub-fractions. Sub-fraction 8.1, 8.2, and 8.5 were analyzed by HPLC and showed that the compounds containing aromatic groups which are active at 254 nm UV. All of the separations results can not be said to be pure and must to do further isolation process.

Keyword : characterization of metabolite, fractions, isolation, endophytic fungi, *Cladosporium oxysporum*, *Alyxia reinwardtii* BL