

**ABSTRACT**

**Purification and Characterization Metabolites from Fraction no. 150-200 and no.10-13 of Ethyl Acetat of Endophytic Fungi *Cladosporium oxysporum* isolated from *Aglaia odorata* Lour**

Ni Kadek Lintia Laksmi

The profiles of the *Cladosporium oxysporum* metabolites from fraction no. 150-200 and no.10-13 were analyzed by TLC-Densitometry method. Fraction no.150-200 were fractionated by column chromatography with gradient eluen system and yielded 360 vials. Fractions obtained were collected according to their TLC patterns to give 18 major fractions (A-R). Fraction F that had 5.2 mg of crystal contained 1 intensive spot. Then fraction F was purified by recrystallization and performed analytical TLC to ascertain purity by 4 different solvent systems. The result was fraction F contained 3 spots with Rf value 0.58; 0.67 and 0.75. The spot with Rf value 0.75 was intensive spot, the ultraviolet spectra showed maximum absorption at 279 nm. These fraction had positive result after sprayed by using anisaldehyde- H<sub>2</sub>SO<sub>4</sub>, cerri- H<sub>2</sub>SO<sub>4</sub>, vanillin- H<sub>2</sub>SO<sub>4</sub>, iodine vapour. Fraction no.10-13 were fractionated by column chromatography with isocratic eluen system and yielded 278 vials. Fractions obtained were collected according to their TLC patterns to give 9 major fractions (A-I). By TLC with CHCl<sub>3</sub>:EtOAc=1:4 as eluen system, fraction C that had 2.2 mg of crystal contained 1 intensive spot with Rf value 0.77. This spot showed maximum absorption at 277 nm. These fraction had positive result after sprayed by using anisaldehyde- H<sub>2</sub>SO<sub>4</sub>, cerri- H<sub>2</sub>SO<sub>4</sub>, vanillin- H<sub>2</sub>SO<sub>4</sub> and iodine vapour.

Keyword: Purification, characterization, *Cladosporium oxysporum*, *Aglaia odorata* Lour.