

**DETECTION OF ALKALOID FROM POD OF  
*Archidendron pauciflorum* ('LOCAL JERING' AND  
'JERING PADI')**

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## ABSTRACT

### DETECTION OF ALKALOID FROM POD OF *Archidendron pauciflorum*

#### (‘LOCAL JERING’ AND ‘JERING PADI’)

This study has been conducted because there were not much knowledge on scientific information regarding the presence of alkaloid in *Archidendron pauciflorum* especially in its pods. The pods of *Archidendron pauciflorum* usually will be waste. Thus, to maximize the consumption of *Archidendron pauciflorum*, this research study was done to gives awareness about the benefits that the pods of ‘jering’ could offer. The samples were collected from Kuala Pilah area, then were cut, separated and dried. After blending, they were sonicated by using sonicator and centrifuged with chloroform and methanol with 1:4 ratio. The TLC analysis was performed with varies ratio of running solvent, chloroform and methanol (CHCl<sub>3</sub>:CH<sub>3</sub>OH<sub>2</sub>) which were 1:4, 2:3, 3:2 and 4:1. The TLC results showed that the pods of local ‘jering’ expressed more alkaloids compared to ‘jering’ padi due to the presence of black spots was clearer and denser. In addition, only 4:1 ratio expressed the presence of alkaloids. The 4:1 ratio gives the best result since the alkaloids can be observed by both using short wave (254nm) UV lamp and also Vanillin reagent test. There were three unknown alkaloids had been detected from ratio 4:1. Unknown A, B, and C with R<sub>f</sub> value 0.95, 0.90 and 0.95 respectively. This study provides advantages to researcher since detected alkaloids might be developed to minimize cancer affliction. For future research, the quantitative analysis of the alkaloids might be determined by using High-Performance Liquid Chromatography (HPLC).