

P-103**Triterpenes, Sesquiterpene and Alkaloids from *Meiogyne Monosperma***

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Meiogyne is a genus of flowering plants consists of 24 species belonging to the family Annonaceae. Only three *Meiogyne* species have been recorded in Malaysia which are *M. cylindrocarpa*, *M. virgata* and *M. monosperma*. From our previous work, *M. virgata* and *M. cylindrocarpa* were found to contain azafluorene alkaloid, aporphine alkaloids, oxoaporphine alkaloids and sesquiterpenes. This paper reports for the first time phytochemical study on *M. monosperma* which was collected from National Park, Pahang Malaysia. The stems of *M. monosperma* were extracted with dichloromethane for 8 hours by using Soxhlet extractor. After removal of the solvent, the crude extract was subjected to column chromatography fractionation with gradient elution using hexane:dichloromethane and dichloromethane:methanol solvent combinations. The fractions were monitored using thin layer chromatography and combined accordingly. Further purification steps involved centrifugal thin layer chromatography and preparative thin layer chromatography lead to isolation of four triterpenes, lupeol, campesterol, stigmasterol and β -sitosterol; a sesquiterpene, β -selinenol; and two alkaloids, liriodenine and lanuginosine. The structure of the compounds were established based on analysis of spectroscopic data including 1D and 2D NMR, FTIR, UV, MS and comparison with published data.

Keywords: Triterpenes, sesquiterpenes, alkaloids, *Meiogyne monosperma*.
