

**DETERMINATION OF CHEMICAL CONSTITUENTS
IN THE LEAVES OF MURRAYA KOENIGII**

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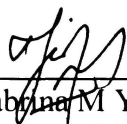
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This Final Year Project Report entitled “**Determination of Chemical Constituents in the Leaves of Murraya Koenigii**” was submitted by Nurul Azwin Usol Ghafli, in partial fulfillment of the Requirements for the Degree Bachelor of Science (Hons.) Applied Chemistry, in the Faculty of Applied Sciences and was approved by



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ABSTRACT

DETERMINATION OF CHEMICAL CONSTITUENTS IN THE LEAVES OF MURRAYA KOENIGII

Phytochemical study on the leaves of *Murraya Koenigii* obtained from the Baling, Kedah has been conducted. The leaves were extracted with hexane as solvent yielding 2.918% of crude extract of dry weight. The crude extract (20.0g) was subjected to chromatographic method in order to separate and isolate the compound. The structure of the compound was determined by means of the Gas Chromatography-Mass Spectrum (GC-MS), Fourier Transform Infrared (FTIR) and ^1H and ^{13}C Nuclear Magnetic Resonance (NMR). Two compounds identified as murrayanine as one of the carbazole alkaloid and a mixture of sterols which are sitosterol, campesterol and stigmasterol has been isolated.