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CHEMICAL CHARACTERIZATION OF POLAR FRACTION FROM CRUDE EXTRACT OF *SHOREA MACROPHYLLA* (DIPTEROCARPACEAE)

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ABSTRACT

Dipterocarpaceae is one of the plant families present in Malaysia consisting of a large number of plant species. However, there are only a few studies that have been done on this plant family, particularly in identifying the chemical constituent. This research aims to identify the chemical constituent of one the species of Dipterocarpaceae, *Shorea Microphylla* or also known as Red Light Meranti. This research focuses on to recognize if the plant species contain any compound derive from stilbene. This research is conducted by using High Performance Liquid Chromatography (HPLC) to obtain sufficient chromatographic condition. This is achieve by changing the concentration of the mobile phase such as acetonitrile and purified water in a certain period of time. The selected chromatographic condition will be analyzed by using the Liquid Chromatography Mass Spectrophotometry (LC-MS). The compound present in the sample is identified by comparing its fragmentation pattern with the one stored in the library. As the summary, this research result shows that the extract of *Shorea Microphylla* contain oligostilbene which is Isohopheaphenol and Hemsleyanol D.