

UNIVERSITI TEKNOLOGY MARA

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

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TABLE OF CONTENT

	Page
ACKNOWLEDGEMENT	i
TABLE OF CONTENTS	ii
LIST OF TABLES	v
LIST OF FIGURES	vi
ABSTRACT	ix
CHAPTER ONE (INTRODUCTION)	1
1.1 Background of research	1
1.2 Problem statement	2
1.3 Objective	3
CHAPTER TWO (LITERATURE REVIEW)	4
2.1 Dipterocarpaceae	4
2.2 Dipterocarpaceae distribution	5
2.3 Dipterocarpaceae family	6
2.4 Common Name for Dipterocarpaceae	7
2.5 Chemical characterization of polar fraction	9
2.6 Polarity	9
2.6.1 Polar compound	11

2.7	Chief compound in Dipterocarpaceae	12
2.7.1	Oligostilbene	12
2.7.2	Resveratrol	13
2.7.3	Uses of oligostilbene	13
2.8	HPLC and LCMS	18
2.8.1	High Performance Liquid Chromatography (HPLC)	18
2.8.2	Liquid Chromatography - Mass Spectrometry (LC-MS)	20
2.8.3	Ion Trap LC-MS	23
CHAPTER THREE (MATERIALS AND METHODOLOGY)		26
3.1	Materials	26
3.1.1	Chemicals	26
3.1.2	Apparatus	26
3.2	Methodology	28
3.2.1	Sample preparation	28
3.2.2	Determination of the chromatographic condition	30
3.2.3	Obtaining chromatographic profile	33
3.2.4	Compound identification	33
CHAPTER 4 (RESULT)		34
4.1	<i>Shorea microphylla</i> leave extract (SMLE)	35

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.