

**PHYTOCHEMICAL STUDIES, THIN LAYER
CHROMATOGRAPHY AND
GC-MS PROFILING OF *OLEA EUROPAEA* TWIG EXTRACT**

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**Final Year Project Report Submitted in
Partial Fulfilment of the Requirement for the
Degree Bachelor of Science (Hons.) Chemistry
in Faculty of Applied Sciences
Universiti Teknologi MARA**

JULY 2017

ABSTRACT

PHYTOCHEMICAL STUDIES, THIN LAYER CHROMATOGRAPHY AND GC-MS PROFILING OF *OLEA EUROPAEA* TWIG EXTRACT

This study was carried out to investigate the phytochemical analysis and determine the compounds in extraction twig of *Olea europaea*. The compounds present were found out to be alkaloids and saponins by using screening process while all the compounds were present except terpenoids by using TLC process in ethanol extract. In ethyl acetate extract, all the compounds were absent by using screening process while TLC process only flavonoids and terpenoids were present. For the hexane extract, only terpenoids were giving positive result by using screening process but from the TLC result, all the compounds were present by giving positive result. For determining the compounds in extraction twig of *Olea europaea* by using GC-MS, two solvents had been used namely hexane and petroleum ether. For the result indicated that petroleum ether extracts show more compounds than hexane extracts which 5 compounds were present.

TABLE OF CONTENTS

	Page
ACKNOWLEDGEMENTS	iii
TABLE OF CONTENTS	iv
LIST OF TABLES	vi
LIST OF FIGURES	vii
LIST OF ABBREVIATIONS	viii
ABSTRACT	ix
ABSTRAK	x
CHAPTER 1 INTRODUCTION	
1.1 Background of study	1
1.2 Problem statement	2
1.3 Significant of study	3
1.4 Objectives of study	3
CHAPTER 2 LITERATURE REVIEW	
2.1 Phytochemical/ Secondary metabolites	4
2.1.1 Tannin	5
2.1.2 Alkaloids	6
2.1.3 Flavonoids	7
2.1.4 Saponins	8
2.1.5 Phenolic	9
2.1.6 Terpenoids	9
2.1.7 Anthraquinones	10
CHAPTER 3 METHODOLOGY	
3.1 Materials	11
3.1.1 Raw materials	11
3.1.2 Chemicals	11
3.1.3 Apparatus and Instrument	12
3.2 Solvent Extraction	13
3.3 Extraction of volatile oil by hydro-distillation	13
3.4 Phytochemical screening	14
3.4.1 Identification of alkaloids	14
3.4.2 Identification of saponins	14
3.4.3 Identification of flavonoids	15
3.4.4 Identification of phenolic	15
3.4.5 Identification of terpenoids	15

3.5	Thin layer chromatography (TLC) analysis	16
3.5.1	Test of Alkaloids	16
3.5.2	Test of Flavonoids	16
3.5.3	Test of Phenolic	17
3.5.4	Test of Saponins	17
3.5.5	Test of Terpenoids	17
3.6	Gas chromatography and mass spectroscopy (GC-MS)	18
3.6.1	Identification of Components	18

CHAPTER 4 RESULTS AND DISCUSSION

4.1	Percentage yield from solvent extraction	19
4.2	Phytochemical screening test	20
4.3	TLC profile of hexane, ethyl acetate and ethanol extract	25
4.4	Chemical composition of volatile oil of <i>Olea europaea</i> using hexane and petroleum ether solvent	30

CHAPTER 5 CONCLUSION AND RECOMMENDATIONS 34

REFERENCES	36
CURRICULUM VITAE	39

LIST OF TABLES

Table	Caption	Page
4.1	Total mass and percentage yield of crude extract	20
4.2	Result of phytochemical screening test	22
4.3	TLC test for ethanol extract of <i>Olea europaea</i> twig	26
4.4	TLC test for hexane extract of <i>Olea europaea</i> twig	28
4.5	TLC test for ethyl acetate extract of <i>Olea europaea</i> twig	29
4.6	Chemical composition of volatile oil of <i>Olea europaea</i> by using hexane solvent	31
4.7	Chemical composition of volatile oil of <i>Olea europaea</i> by using petroleum ether solvent	32