

**THE EFFECTIVE OF *LANTANA CAMARA* (L.) EXTRACT AS  
REPELLENT AGAINST RICE WEEVIL**

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## TABLE OF CONTENTS

<b>ACKNOWLEDGEMENT</b>	<b>ii</b>
<b>TABLE OF CONTENTS</b>	<b>iii</b>
<b>ABSTRACT</b>	<b>v</b>
<b>ABSTRAK</b>	<b>vi</b>
<b>LIST OF FIGURES</b>	<b>vii</b>
<b>LIST OF TABLES</b>	<b>viii</b>
<b>CHAPTER 1 INTRODUCTION</b>	
1.1 Background of the study	1
1.2 Problem Statement	3
1.3 Objectives and Aims	7
1.4 Significance of study	7
<b>CHAPTER 2 LITERATURE REVIEW</b>	
2.1 Biopesticides	9
2.2 Implications of Biopesticide and Synthetic Pesticide toward The Environment	10
2.3 <i>Lantana camara</i> (Biology and Bioactive Compounds)	12
2.4 Phytochemical compounds of <i>L. camara</i> and its Biological Activities	14
2.5 Stored Grain Pest Prevalence	18
2.6 <i>Sitophilus oryzae</i> (Biology and Lifestyle)	20
2.7 Statistical analysis of rice grain in Malaysia	21
<b>CHAPTER 3 METHODOLOGY</b>	
3.1 Materials	24
3.2 Methods	26

<b>CHAPTER 4 RESULTS AND DISCUSSION</b>	
4.1 Repellency Assay Test	35
4.2 Effectiveness of <i>L. camara</i> (L.) Extract	41
4.3 Gas Chromatography-Mass Spectrometry (GC-MS) Analysis	43
<b>CHAPTER 5 CONCLUSION AND RECOMMENDATIONS</b>	
<b>CITED REFERENCES</b>	<b>48</b>
<b>APPENDICES</b>	<b>51</b>
<b><i>CURRICULUM VITAE</i></b>	<b>54</b>

## ABSTRACT

### THE EFFECTIVE OF *LANTANA CAMARA* (L.) EXTRACT AS REPELLENT AGAINST RICE WEEVIL

The *Lantana camara* is a flowering plant that is used for its decorative qualities. It has a long history of usage in traditional medicine and is widely recognised for its curative effects. The current study was conducted to evaluate the effectiveness of *Lantana camara* leaves extracts (1, 2, 4, 8, 16 µl) as repellent against rice weevil, *S. oryzae* using filter paper method. *L. camara* leaves were extracted using Soxhlet extraction method and used n-hexane as the solvent. This study was also carried out to determine the presence of bioactive compounds from *L. camara* (L.) extract using GC-MS. The GC-MS analysis of *L. camara* (L.) extract reported the presence of Cycloheptasiloxane, tetradecamethyl (27.97%), Benzeneacetic acid, .alpha.,3,4-tris[(trimethylsilyl)oxy]-, trimethylsilyl ester (18.98%), 3-Isopropoxy-1,1,1,7,7,7-hexamethyl-3,5,5-tris(trimethylsiloxy) tetrasiloxane (13.89%), Benzoic acid, 4-methyl-2-trimethylsiloxy-, trimethylsilyl ester (13.05%), and 7-Chloro-10-ethyl-1-[(2-[(2-hydroxyethyl)amino]ethyl)amino]-3-[4- (7.19%) as major compounds. The presence of cycloheptasiloxane, tetradecamethyl- compound as one of cyclic dimethyl polysiloxane that belongs to the class of siloxane in *L. camara* (L.) extract showed the repellency of *S. oryzae* as it contained active constituent of insecticidal property.