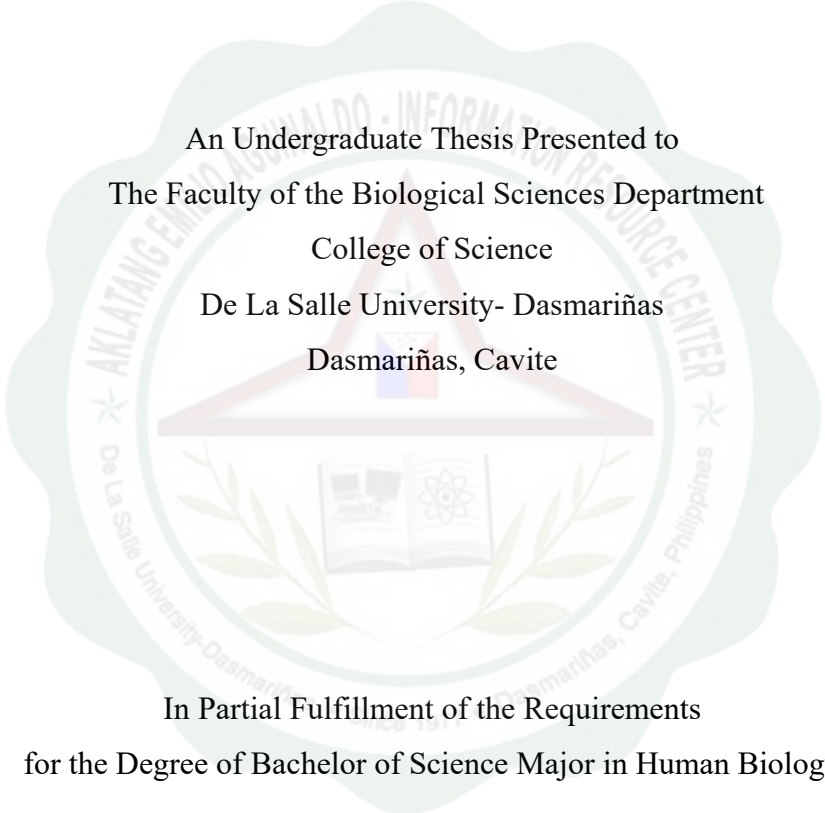


**INSECTICIDAL EFFECT OF *Phaseolus vulgaris* L. (STRING BEANS)  
CRUDE SEED EXTRACT ON *Periplaneta americana*  
(AMERICAN COCKROACH)**



An Undergraduate Thesis Presented to  
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for the Degree of Bachelor of Science Major in Human Biology

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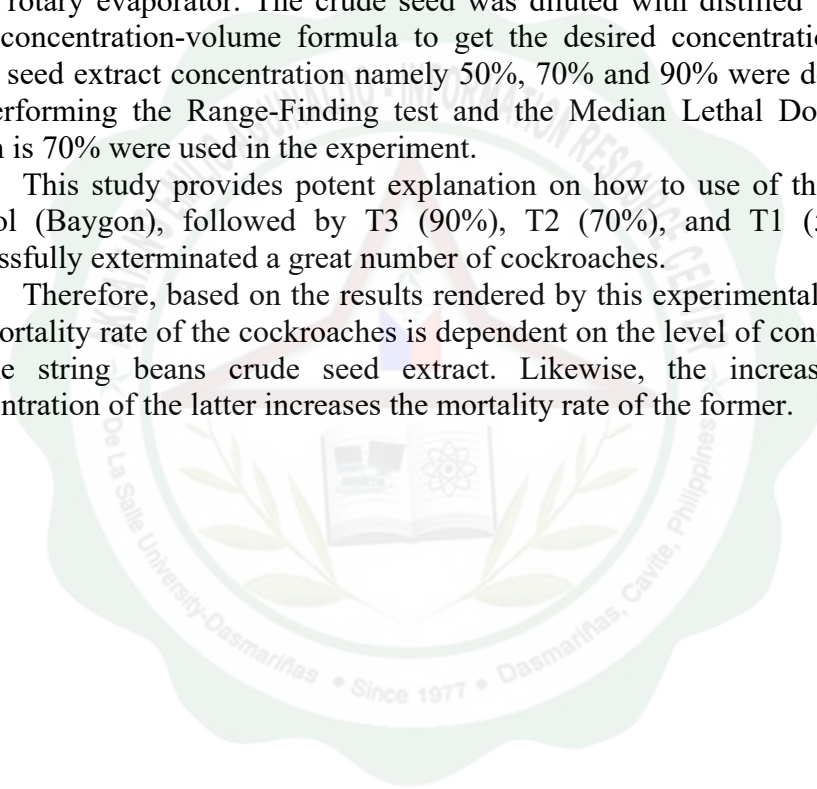
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## ABSTRACT

The study observed the insecticidal effect of *Phaseolus vulgaris* (string beans) crude seed extract against *Periplaneta americana* (American cockroach). String beans seed were gathered and was extracted using rotary evaporator. The crude seed was diluted with distilled water and used concentration-volume formula to get the desired concentration. Three crude seed extract concentration namely 50%, 70% and 90% were determined by performing the Range-Finding test and the Median Lethal Dose (LD<sub>50</sub>) which is 70% were used in the experiment.

This study provides potent explanation on how to use of the positive control (Baygon), followed by T3 (90%), T2 (70%), and T1 (50%) has successfully exterminated a great number of cockroaches.

Therefore, based on the results rendered by this experimental research, the mortality rate of the cockroaches is dependent on the level of concentration of the string beans crude seed extract. Likewise, the increase in the concentration of the latter increases the mortality rate of the former.



## TABLE OF CONTENTS

Title Page	1
Approval sheet	2
Abstract	3
Acknowledgement	4
Table of Contents	5
List of Tables	7
List of Figures	8
<b>CHAPTER 1 INTRODUCTION</b>	
1.1 Background of the Study	9
1.2 Conceptual Framework	11
1.3 Statement of the Problem	11
1.4 Hypotheses	12
1.5 Scope and Limitations	12
1.6 Significance of the Study	13
1.7 Definition of Terms	13
<b>CHAPTER 2 LITERATURE REVIEW</b>	
2.1 Conceptual Literature	15

2.2 Related Studies	20
CHAPTER 3 METHODOLOGY	
3.1 Research Design	24
3.2 Research Setting	24
3.3 Research Procedure	24
3.4 Data Gathering and Statistical Analysis	27
CHAPTER 4 RESULTS AND DISCUSSION	
4.1 Results	29
4.2 Discussion	32
CHAPTER 5 SUMMARY, CONCLUSION AND RECOMMENDATIONS	
5.1 Summary	35
5.2 Conclusion	36
5.3 Recommendations	36
Cited References	38
Appendices	
A. Raw Data	43
B. Concentration-Volume formula	45
C. Figures	46
F. Photodocumentation	47

G. Curriculum Vitae	51
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### LIST OF TABLES

Table 4.1 Range-Finding Test using string beans crude seed extract on 20 cockroaches	29
Table 4.2 Mortality Rates of <i>P. americana</i> in treatments using <i>P. vulgaris</i> crude seed extract	30
Table 7.1 Raw Data for the Mortality Rate of cockroaches	43
Table 7.2 Statistical analysis within and between groups	43
Table 7.3 Comparison for the significance at 0.5 level	44

**LIST OF FIGURES**

Figure 7.1 Mortality rates of *P. americana*

46

