

TABLE OF CONTENTS

COVER	ii
APPROVAL SHEET	iii
PERNYATAAN BEBAS PLAGIASI	iv
ACKNOWLEDGEMENTS	v
PREFACE	vi
LIST OF TABLES	ix
LIST OF FIGURES	x
LIST OF ATTACHMENTS	xi
ABSTRAK	1
ABSTRACT	2
INTRODUCTION	3
Background	3
Purpose	4
Benefit	4
LITERATURE REVIEW	5
Green Iguana (Iguana iguana)	5
Endocrine	5
Thyroid	7
Anatomy and Function	8
Thyroid Hormones	9
Tri-iodothyronine (T3)	12
Thyroid Assessment	13
Enzyme-linked immunoabsorbant assay (ELISA)	15
MATERIALS AND METHODS	17
Materials	17
Methods	17

Sample collection	17
Sample preparation	17
Sample analysis	18
Data analysis	18
RESULTS AND DISCUSSION	19
CONCLUSION	28
SUGGESTIONS	28
REFERENCES	29
ATTACHMENTS	31

LIST OF TABLES

Table 1. Optical Density (OD) of Triiodothyronine (T3) hormone.....	20
Table 2. The results of T3 hormone compared to number of visitors from the same day as sample collection (D).....	21
Table 3. Correlation testing using number of visitors from the same day as sample collection (D) and level of T3 hormone.....	22
Table 4. The results of T3 hormone compared to number of visitors from one day before sample collection (D-1).....	23
Table 5. Correlation testing using number of visitors from one day before sample collection (D-1) and level of T3 hormone.....	24

LIST OF FIGURES

Figure 1. A male green iguana (<i>Iguana iguana</i>).....	5
Figure 2. Chemical regulation of the endocrine system, nervous system, and immune system using bioregulators: hormones and neurocrines.....	6
Figure 3. Thyroxine, precursors, and some deiodinated metabolites. Synthesis of MIT, DIT, T4, and conversion of T4 to T3 and rT3 by thyroid deiodinase enzymes.....	11
Figure 4. This diagram shows some of the communication pathways of T3/T4 hormones.....	12
Figure 5. Standard curve and parallelism curve of Triiodothyronine (T3) hormone.....	20
Figure 6. Graph of T3 levels (ng/gr feces) compared to number of visitors a day before sample collection (D-1).....	25
Figure 7. Graph of T3 levels (ng/gr feces) compared to number of visitors the same day as sample collection (D).....	26

LIST OF ATTACHMENTS

Attachment 1. Ethical clearance.....	31
Attachment 2. Optical Density (OD) of Triiodothyronine (T3) hormone.....	32
Attachment 3. Standard curve and parallelism curve of Triiodothyronine (T3) hormone.....	32
Attachment 4. The results of T3 hormone compared to number of visitors from the same day as sample collection (D).....	33
Attachment 5. Correlation testing using number of visitors from the same day as sample collection (D) and level of T3 hormone.....	33
Attachment 6. The results of T3 hormone compared to number of visitors from one day before sample collection (D-1).....	34
Attachment 7. Correlation testing using number of visitors from one day before sample collection (D-1) and level of T3 hormone.....	34
Attachment 8. Graph of T3 levels (ng/gr feces) compared to number of visitors a day before sample collection (D-1).....	35
Attachment 9. Graph of T3 levels (ng/gr feces) compared to number of visitors the same day as sample collection (D).....	35