

**TABLE OF CONTENT**

TITLE.....	ii
APPROVAL SHEET .....	iii
PERNYATAAN BEBAS PLAGIASI .....	iv
PREFACE .....	v
LIST OF SYMBOLS AND ABBREVIATIONS .....	vi
TABLE OF CONTENT .....	vii
LIST OF TABLE .....	ix
LIST OF FIGURE.....	x
ATTACHMENT .....	xi
ABSTRACT.....	xii
CHAPTER I INTRODUCTION .....	1
A.    Scientific Background.....	1
B.    Research Problem .....	2
C.    Research Purpose .....	3
D.    Research Benefits.....	3
CHAPTER II LITERATURE REVIEW AND HYPOTHESIS .....	4
A.    Literature Review.....	4
1. <i>Euglena</i> sp.....	4
2. <i>Euglena</i> sp. Carbohydrate and Paramylon .....	5
3. Microalgae Growth Phase .....	7
4. Microalga Growth Conditions.....	9
5. Magnesium and Calcium in Microalgae Culture .....	12
6. Semi-Mass Cultivation .....	14
B.    Hypothesis .....	15
CHAPTER III METHODOLOGY .....	16
A.    Materials and Equipment .....	16
B.    Methods .....	16
1. <i>Euglena</i> sp. Semi-mass Culture .....	16
2. <i>Euglena</i> sp. Sampling and Parameter Measurement.....	18
C.    Carbohydrate Identification .....	20
D.    Data Analysis .....	21
CHAPTER IV RESULT AND DISCUSSION .....	22
A.    Salinity Level.....	22
B.    Cell Growth Based on Absorbance at 680 nm.....	23
C.    Biomass.....	27



D. Paramylon Production.....	29
E. Disaccharide and Monosaccharide Content Analysis .....	31
<b>CHAPTER V CONCLUSION .....</b>	<b>34</b>
A. Conclusion .....	34
B. Suggestion.....	34
<b>REFERENCES.....</b>	<b>35</b>
<b>ATTACHMENT .....</b>	<b>42</b>