

Contents

Page

ACKNOWLEDGEMENT

LITERATURE REVIEW

Nitrogen availability and algal growth.....	1
Nitrogen limitation and algal growth.	14

MATERIALS AND METHODS

Nutrient media

1-Bold's basal medium.....	17
2-Kuhl medium.....	18
3-Chu no. 10 medium.....	19
Organisms and culture conditions.....	19

Determination of algal growth

1-Optical density.....	20
2-Cell number.....	21
3-Dry weight.....	21
Estimation of chlorophyll <i>a</i> content.....	21
Extraction of carbohydrate and protein.....	22
Estimation of total carbohydrates.....	22

8-Effect of nitrogen starvation on growth and biochemical composition of <i>Scenedesmus obliquus</i>	88
DISCUSSION	93
CONCLUSION	111
SUMMARY	112
REFERENCES	115
ARABIC SUMMARY	