

ABSTRACT

PROTEIN EXTRACTION AND IDENTIFICATION OF AMINO ACID MIKROALGAE *CHLORELLA PYRENOIDOSA* IN EXTRACT BEAN SPROUTS MEDIA

BY:

Andi Praja Putra (1010413005)

Dr.Armaini, Marniati Salim, MS

Research on microalgae *Chlorella pyrenoidosa* aims to determine the content of protein and amino acids contained in *Chlorella pyrenoidosa*. *Chlorella pyrenoidosa* grow in extract bean sprouts media with urea as nitrogen source and the growth measured at a wavelength of 595nm. Protein extraction using the method of alkali (alkaline extraction) and determination of protein content using the method of Lowry, obtained the protein content of 23,3890mg / L. Results of the analysis of amino acids obtained 17 kinds of amino acids comprising 7 essential amino acids and 10 non-essential amino acids. The highest amine acid content obtained in 5 types of amino acids Glutamic acid (4.3%), aspartic acid (3.9%), Leucine (3.5%), alanine (3.2%) and Methionine (3.1%)

Keyword: *Chlorella pyrenoidosa*, Urea, Acid Amino

