

The influence of media composition on the growth of scenedesmus sp. microalgae in varied media = Pengaruh komposisi media terhadap pertumbuhan mikroalgascenedesmus sp. pada berbagai variasi media

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Abstrak

Media culture is one of the important factors in the growth of microalgae. Culture medium contains macro and micro nutrition required for the growth of microalgae. Composition of nutrition concentrations determine the production of microalgae biomass and nutrient content. The aim of this study is to evaluate the effect of medium composition of media for microalgae Scenedesmus sp. This study was conducted in a laboratory scale. The growth medium that were used in this study were BBL sm, SS, MN, M4N, "Sederhana 2", and "Sederhana 3" medium. The microalgae that were used in this study were mixed culture Chlorophyceae microalgae which is dominated by scenedesmus sp. The parameters observed were pH, optical density (OD), cell density and temperature. The results show that of the 6 variations of the growth medium used in this study M4N medium is the best medium for the growth of microalgae. At the end of the operation, cell density of Scenedesmus sp. from M4N medium was  $306.83 \times 10^6$  cell/ML with a dark green color for the culture. The coefficient growth of Scenedesmus sp. which is grown in M4N medium was 0,36. This is likely to be due to the composition of nutrients in the medium M4N which were more complete than other media.