

## ABSTRACT

### **The effect of media on Bioaccumulation ability of Lead (Pb) on *Tetraselmis sp***

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The accumulated lead on the water is a one of indicator which has negative effect for aquatic enviroment. The bioaccumulation mechanism on microalgae may reduce heavy metal concentration to the treshold level for biological level. *Tetraselmis sp* is marine microalgae with sensitive respon to heavy metal. The research aim was to determined the bioacuumulation treshold effect of specific heavy metal (lead) on marine microalgae *Tetraselmis sp*. The research was conducted on July 2010 in BBPBL Hanura Lampung Province. It was used two different media (TMRL and Conwy), each treatment added lead of 0,25 mg/l. Data was analized by using simple linier regression model to found the correlation between microalgae density and present of heavy metal. The result showed that the media has not significant effect on bioaccumulation ability of *Tetraselmis sp*. In the other hand, the present of heavy metal on media has positive correllation to initial concentration of heavy metal on microalgae biomass, because the corellation coeficient tends to aproached 1, (  $r_{Conwy} = 0,657$  ;  $r_{TMRL} = 0,682$  ).

Keyword : *Tetraselmis sp*, Lead (Pb), Bioaccumulation