

ABSTRACT

*This study aimed to determine the effect of yeast *Aspergillus niger* on levels of bioethanol produced from fermented pineapple waste fermentation 7 days. This research is compiled in the CRD (completely randomized design) with a single factor experimental design, so that the treatment, there are three treatments, namely *Saccharomyces cerevisiae*, *Saccharomyces cerevisiae* and *Zymomonas mobilis* and *Saccharomyces Cerevisiae* + *Zymomonas mobilis* + *Aspergillus niger*. Chemical analysis is tested microbiological test, reducing sugar, total acid and pH.*

*The results showed that the addition of yeast *Aspergillus niger* can produce the highest levels of ethanol in the fermentation process pineapple waste for 7 days. The best treatment with the best ethanol content in fermentation 7 days is the treatment of *Saccharomyces Cerevisiae* + *Zymomonas mobilis* with ethanol content of 9.3% ethanol yield of 13.6 (% v / v) with a volume of 41 ml of ethanol.*

*Keywords: pineapple waste, *S. cerevisiae* , *Z. mobilis*, *A. niger*, bioethanol*