

UTILIZATION OF RICE WASHING WATER AS GROWTH MEDIUM OF YEAST *Saccharomyces cerevisiae*

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ABSTRACT

The purpose of this research is to know the growth activity of *Saccharomyces cerevisiae* in alternative medium (*Sabouraud Dextrose Agar* modified with variations of the concentration of rice washing water). The research method used is an experiment using *Posstest-only Control Design* where yeast isolate from cassava tape rejuvenated on SDA medium, then pure colonies of yeast tested with turbidity 0,5 McFarland standar test with dilution of suspension 10^{-6} CFU/ml. then planted in rice water medium concentration of 10% b/v, 20% b/v, 30% b/v and SDA as well with *Spread Plate* method. The number of yeast colonies grown on the medium calculated by using the *TPC (Total Plate Count)* method. The result showed the average of colonies on the control group using *Sabouraud Dextrose Agar* medium as much as 29×10^6 CFU/ml, the average number of colonies on medium treatment of group of rice water the most good is the concentration of 10% b/v as many as 22×10^6 CFU/ml because approaching the average number of colonies on control medium, concentration of 20% b/v as many as 18×10^6 CFU/ml, and concentration of 30% as many as 17×10^6 CFU/ml. The result of ANOVA test with degree of confidence 0,05 got *p value* 0,143 ($p > 0,05$), so the obtained conclusion there is no significant influence of the variation concentration of rice washing water against the number of colonies of *Saccharomyces cerevisiae*.

Keyword : Rice Washing water, The Number of Colonies, *Saccharomyces cerevisiae*.