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- Paper Title: Effects of Glycerol and Chitosan Doses for Cassava Peels Organic Waste as Bioplastic Food Packaging and The Effects on Physical and Microbiological Food Quality
- Area of Research: Environment Health
- Paper Issue: Volume-54, Issue- 09
- Abstract:
 

The long-term use of plastic for food packaging affects monomer migration. Bioplastics can be used as an alternative for food packaging because bioplastics can reduce risks of health. This research aimed to determine the effect of glycerol and chitosan doses for the utilization of cassava peel waste as bioplastics food packaging and its effect on physical and microbiological food quality. This research is experiment with the independent variable of glycerol and chitosan doses as (3 % weight: 3 ml, 5 % weight: 5 ml and 7 % weight: 7 ml) and the dependent variables are the physical and microbiological quality of food. Sample at this research is Getuk, with 24 samples Getuk (100 gr/sample). The result of the research is total plate count of control as 11500 CFU/g, treatment group 1 at 8783 CFU/g, treatment group 2 at 6716 CFU/g, and treatment group 3 at 4400 CFU/g. Analysis of statistics used ANOVA test, the result showed significant differences in doses of glycerol and chitosan for organic waste utilization of cassava peels as bioplastics food packaging to physical and microbiological food quality with a p-value as = 0,000. The conclusion of this research is the addition of 7 % weight chitosan and 7 ml glycerol showed the optimal treatment to reduce the total plate count of food (getuk) and the organoleptic test showed the food (getuk) packaging with bioplastics quality is better than regular plastic

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Abstract (Maximum 250 Words)\*  
 The long-term use of plastic for food packaging affects monomer migration. Bioplastics can be used as an alternative for food packaging because bioplastics can reduce risks of health. This research aimed to determine the effect of glycerol and chitosan doses for the utilization of cassava peel waste as bioplastics food packaging and its effect on physical and microbiological food quality. This research is experiment with the independent variable of glycerol and chitosan doses as (3 % weight: 3 ml, 5 % weight: 5 ml and 7 % weight: 7 ml) and the dependent variables are the physical and microbiological quality of food. Sample at this research is Getuk, with 24 samples Getuk (100 gr/sample). The result of the research is total plate count of control as 11500 CFU/g, treatment group 1 at 8783 CFU/g, treatment group 2 at 6716 CFU/g, and treatment group 3 at 4400 CFU/g. Analysis of statistics used ANOVA test, the result showed significant differences in doses of glycerol and chitosan for organic waste utilization of cassava peels as bioplastics food packaging to physical and microbiological food quality with a p-value as = 0,000. The conclusion of this research is the addition of 7 % weight chitosan and 7 ml glycerol showed the optimal
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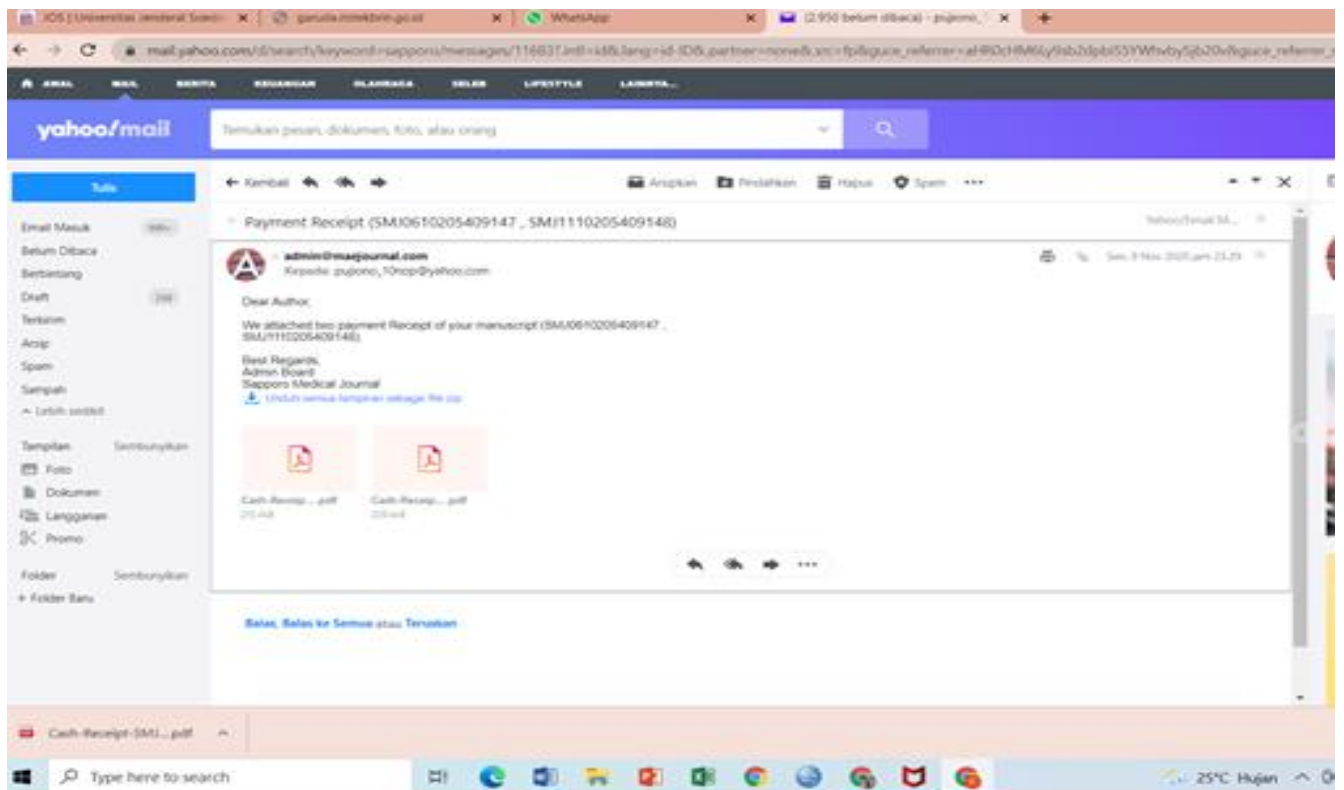
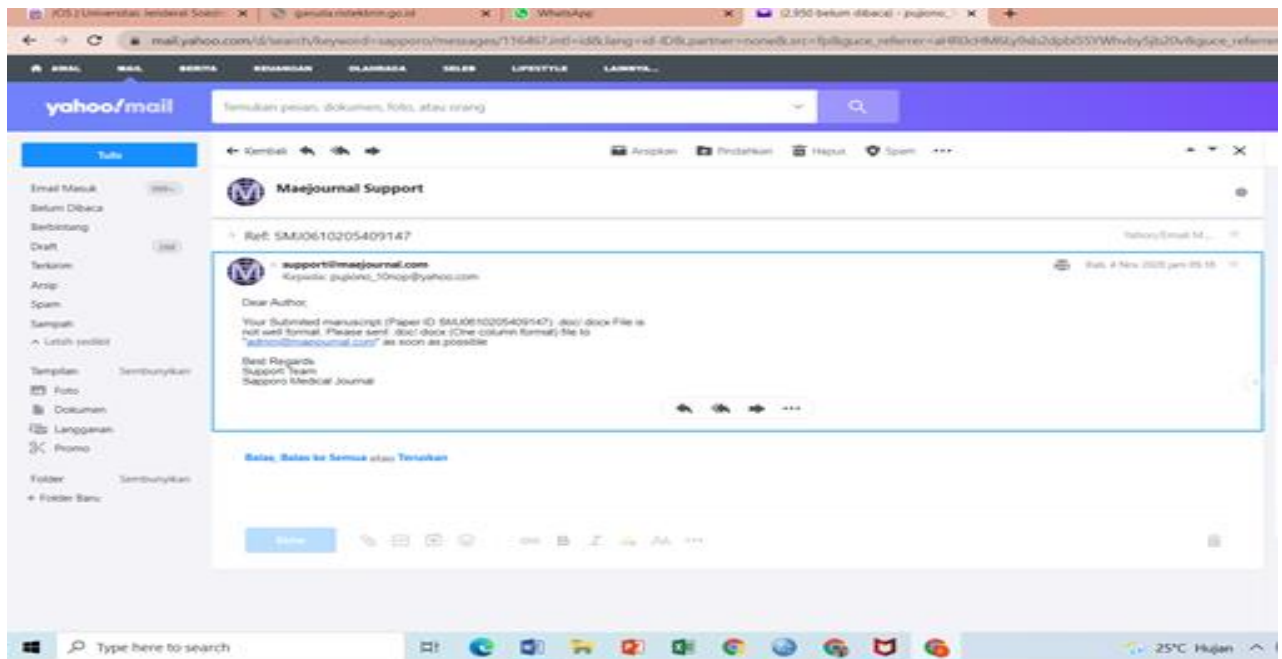
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Dear Dr. Pujiono,

**Congratulation From Editorial Board!**  
We are Pleased and honored to inform you that your paper "Effects of Glycerol and Chitosan Doses for Cassava Peels Organic Waste as Bioplastic Food Packaging and The Effects on Physical and Microbiological Food Quality" has been accepted by our Editorial board for the next issue of Sapporo Medical Journal.

The editor is really pleased to see this kind of paper and the research applications. The current condition of the paper is fully ok and need no further edit for the publications. In order to proceed for publication, kindly send the APC (Application process charge) of the publication within 7 days and submit the completed copyright Agreement paper into your Author Dashboard or through the mail.

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