

abstract book FAIZA A. DALI



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Biodiversity and biotechnology for human welfare

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10<sup>th</sup> Korea-ASEAN Biomass Symposium**

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## PREFACE

We would like to thank God for the blessing since the joint 3<sup>rd</sup> International Biology Conference (IBOC) and 10<sup>th</sup> Korea-ASEAN Biomass Symposium could be held in 15<sup>th</sup> October 2016 by The Biology Department of Institut Teknologi Sepuluh Nopember (ITS). This conference is purposed to build a promising international networking between our department and international institutions which have a similar biological interest for saving the environment and enhancing human welfare, as the theme of conference is 'Biodiversity and Biotechnology for Human Welfare'.

Through the conference we would like to achieve many personal contacts, ideas, biological-environmental problem solve sharing and fruitful discussions in order to save the earth together. Therefore we are really grateful and thankful that the participants who are interested to joint with are from Italy, Korea, Thailand, Japan, Singapore, Philippine, Malaysia and Indonesia.

We would like also to thank to the Mathematics and Natural Sciences Faculty and the ITS for supporting the conference. The big remarkable applause is also going to our seminar committee who are giving their excellent hands for keeping the conference running on schedule.

Last but not least, we have a big hope that a real excellent networking in the future may arise from this event.

Thank you and best regards

Surabaya, October 10<sup>th</sup> 2016  
Head of Biology Department  
Institut Teknologi Sepuluh Nopember

Dr. Dewi HIDAYATI, M.Si

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## Microbiological quality of flavoring products based different raw fish and carbohydrate concentration

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### Abstract

Research focuses on the microbiological quality of flavoring products made from different raw fish and carbohydrate concentration aims to analyze the effect of different raw fish materials and carbohydrate concentration on microbiological quality of flavoring, especially with regard to the value of Standard Plate Count (SPC). Raw materials for sampling used in this study are Nike fish (*Awaous melanocephalus*), Manggabal fish (*Glossogobius giuris*), Carbohydrate (rice flour) concentration of 20% and 40%. The method used is an experimental method in laboratory, technical data analysis using quantitative descriptive. Based on the experimental results showed that the quality of microbiological of flavoring is influenced by differences in raw materials of fish and concentrations of carbohydrate, the average value of the highest SPC there are Manggabal fish with a carbohydrate concentration 20% amounting to  $1.75 \times 10^3$  (cfu/g) and the lowest average SPC there are Nike fish with a carbohydrate concentration of 20% amounting to  $0.60 \times 10^3$  (cfu/g). SPC value is still acceptable by SNI 01-4273-1996. Microbiological quality of flavoring shows that Nike fish is the raw material of fish better than Manggabal fish.

**Keywords:** flavoring, microbiological quality