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1100066827 Study of palm oil, palm wax and chitosan coating effects on shelf-life of Syzygium samarangense / Siti Atiqah Mohd Sharif.

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STUDY OF PALM OIL, PALM WAX AND CHITOSAN COATING EFFECTS ON SHELF-LIFE OF Syzygium samarangense

| Siti Atiqah Mohd Sharif | |
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| This project is submitted in partial fulfillment of the requirement of the degr of Bachelor of Science Agrotechnology (Post-harvest Technology) | ee |
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This project report should be cited as:

Siti Atiqah, M.S. 2008. Study of palm wax, palm oil and chitosan coating effects On Syzygium samarangense. Undergraduate thesis, Bachelor of Science Agrotechnology (Post-harvest Technology), Faculty of Agrotechnology and Food Science, Universiti Malaysia Terengganu. 30 p

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ACKNOWLEDGEMENTS

Firstly, I would like to thank God as for creating me and endow the ability to live as a better person. I address my sincere appreciation and deepest gratitude to Assoc. Prof. Dr. Mohd Senawi Mohamed Tamin as my supervisor, for his kind comments, guidance, encouragement, and help throughout this project. His continuous support, group discussion and advice were responsible in bringing this thesis to a successful conclusion.

I wish to acknowledge the coordinator of my study, Dr. Chuah Tse Seng for his sincere cooperation and valuable suggestion in producing this project paper.

I am very thankful to all the UMT Post-harvest laboratory staff, Mr. Zulhairi, Mrs. Rokiah, Mrs. Rafidah, Mr. Fauzi and Mr. Kamarul for their helpful hand and guidance during my laboratory works.

My heartiest appreciation to my family for their unlimited encouragement and moral support. I would also thank my course mates and best friends who have helped me directly or indirectly. Last but not least, i would like to extend my appreciation and gratitude to all those who have helped me in accomplishing this project.

ABSTRACT

The aim of this study is to improve the shelf life of *Syzygium samarangense*, a type of wax apple stored at room temperature (28°C) through palm wax, palm oil and chitosan coating. In this study, the fruits was coated and analyzed to determine the effects of coating on weight loss, storage day, Total Soluble Solid (TSS) and chroma a value (redness). The weight loss was determined by using analytical weight. Palm wax is a good moisture barrier for wax apple. Storage day was evaluated based on overall visual appearance and market acceptability. Palm wax and palm oil coatings shows extended storage life of *Syzygium samarangense*. The same goes with the TSS percentage determination. Palm wax and palm oil coatings lowered the rate of sugar loss in wax apple. The redness of the wax apple can be increase by palm oil coating. Since the palm wax is sticky and hard to handle, palm oil coating is more preferable as the source of coating material to improve the shelf life of *Syzygium samarangense*.