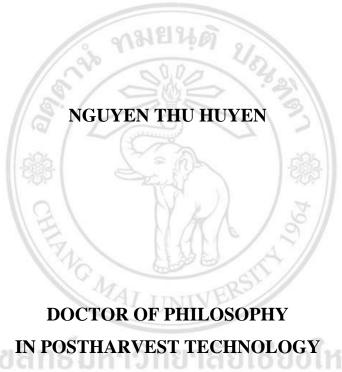
EFFECTS OF WAX COATING AND PHENYLLACTIC ACID (PLA) ON QUALITY AND STORAGE LIFE OF VIETNAMESE SWEET ORANGE CV. CANH



Copyright[©] by Chiang Mai University All rights reserved

> GRADUATE SCHOOL CHIANG MAI UNIVERSITY JUNE 2016

EFFECTS OF WAX COATING AND PHENYLLACTIC ACID (PLA) ON QUALITY AND STORAGE LIFE OF VIETNAMESE SWEET ORANGE CV. CANH



A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIAL FULFILLMENT OFTHE REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN POSTHARVEST TECHNOLOGY

GRADUATE SCHOOL, CHIANG MAI UNIVERSITY JUNE 2016

EFFECTS OF WAX COATING AND PHENYLLACTIC ACID (PLA) ON QUALITY AND STORAGE LIFE OF VIETNAMESE SWEET ORANGE CV. CANH

NGUYEN THU HUYEN

THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN POSTHARVEST TECHNOLOGY

Examination Committee: MarkChairman

(Asst. Prof. Dr. Ngo Xuan Manh)

Member

(Dr. Tanachai Pankasemsuk)

Sarunja Nalumpang Member

(Dr. Sarunya Nalumpang) (Dr. Viboon Changrue)

V. Chayn Member

(Dr. Viboon Changrue)

Member

(Asst. Prof. Dr. Kanda Whangchai)

Advisory Committee: .. Advisor

(Dr. Tanachai Pankasemsuk)

Sarunya Nalumpang Co-advisor

(Dr. Sarunya Nalumpang)

Dr. Vihaan Changen

16 June 2016 Copyright © by Chiang Mai University

ACKNOWLEDGEMENTS

I would like to express the deepest appreciation to my advisor Dr. Tanachai Pankasemsuk for his enormous support with continuous advice and guidance, right from the initiation of research and on through the preparation of this thesis. Without his supervision and constant help this dissertation would not have been possible.

I would like to thank my co-advisors: Dr. Sarunya Nalumpang and Dr. Viboon Changrue for their contributions in stimulating suggestions and encouragement, which helped me to coordinate my research, especially in writing of the reports for publishing in the international journals and this thesis.

I would also like to deeply thanks my external thesis examination committee members, who had spent many time to read my thesis and gave me many useful comments and suggestion.

I especially would like to thank to Program of Agriculture and Aquaculture Biotechnology of Vietnamese Government for supporting me the funds on my studying.

I would like to thank Postharvest Technology Research Institute, Chiang Mai University, Thailand; Hanoi of Agriculture University, Vietnam and Institute of Agriculture Engineering and Post Harvest Technology, Vietnam, 69 Institute, Ministry of Defense, Vietnam for providing me studying facilities and analytical equipments.

I would like to thank the college of Department for Research of Agro-Food Preservation of Institute of Agriculture Engineering and Post harvest Technology Vietnam for their kind helped and giving me a good opportunity.

Finally, I would like to thank all of my big family and my friends who shared my difficulties and offered sympathy and compassion during my research.

Nguyen Thu Huyen