SYNTHESIS OF MOLECULARLY IMPRINTED POLYMERS FOR SPECIFIC RECOGNITION OF ISOFLAVONES

FROM SOYBEAN

CHANCHIRA WIWATSAMRETKUN

MASTER OF SCIENCE

IN CHEMISTRY

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่ Copyright[©] by Chiang Mai University All rights reserved

THE GRADUATE SCHOOL

CHIANG MAI UNIVERSITY

OCTOBER 2010

SYNTHESIS OF MOLECULARLY IMPRINTED POLYMERS FOR SPECIFIC RECOGNITION OF ISOFLAVONES FROM SOYBEAN

CHANCHIRA WIWATSAMRETKUN

A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN
PARTIAL FULFILLMENT OF THE REQUIREMENTS

FOR THE DEEGREE OF

MASTER OF SCIENCE

IN CHEMISTRY

าาวิทยาลัยเชียงใหม

THE GRADUATE SCHOOL

CHIANG MAI UNIVERSITY

OCTOBER 2010

SYNTHESIS OF MOLECULARY IMPRINTED POLYMERS

SYNTHESIS OF MOLECULARY IMPRINTED POLYMERS FOR SPECIFIC RECOGNITION OF ISOFLAVONES FROM SOYBEAN

CHANCHIRA WIWATSAMRETKUN

THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE IN CHEMISTRY

EXAMINING COMMITTEE	THESIS ADVISORY COMMITTEE
Maem CHAIRPERSON	of 2 and Advisor
Dr. Pakawan Puangsombat	Assoc. Prof. Dr. Sugunya Wongpornchai
y-2 member	hold Bobb CO-ADVISOR
Assoc. Prof. Dr. Sugunya Wongpornchai	Asst. Prof. Dr. Mookda Pattarawarapan
Model Post MEMBER	ายาลัยเชียกใหม
Asst. Prof. Dr. Mookda Pattarawarapan	10 10,01000111
P. Pripoleevel MEMBER	hiang Mai University
Dr. Patcharee Pripdeevech	s reserved

19 October 2010 © Copyright by Chiang Mai University

ACKNOWLEDGEMENTS

My sincere thanks first and foremost go to my advisor Associate Professor Dr. Sugunya Wongpornchai who gave me this great opportunity to do my master degree at the Department of Chemistry, Faculty of Science, Chiang Mai University. She always has been a great scientific advisor and mentor.

I also would like to express my appreciation and thanks to my co-advisor Assistant Professor Dr. Mookda Pattarawarapan who have followed me along these academic years and provided knowledge, insight, and experience helping throughout this study.

I wish to extend my special thanks to Dr. Pakawan Puangsombat and Dr. Patcharee Pripdeevech for serving on my graduate advisory committee and helping me through the difficulties.

I gratefully thank the Department of Chemistry, Faculty of Science, Chiang Mai University for kindly providing me with the laboratory facilities and the Center of Excellence for Innovation in Chemistry (PERCH-CIC) for financial support which have made this study possible. I am also especially thankful to Mr. Pisan for his help throughout all of the chromatographic works.

I am profoundly grateful to my family for their tender love, continual care and encouragement during my study in the M.Sc. program. Furthermore, I would like to offer my gratitude to all of my friends for their help and support, making the time at the university an enjoyable one.