

การนิพนธ์เอกลักษณ์และจัดทำข้อมูลจำเพาะทางเภสัชเวท  
ของเหียนทั้ง 9



นางประนอม เดชวิเศษสกุล

ศูนย์วิทยทรัพยากร

วิทยานิพนธ์นี้เป็นส่วนหนึ่งของการศึกษาตามหลักสูตรปริญญาเภสัชศาสตรมหาบัณฑิต

ภาควิชาเภสัชพันธุศาสตร์


บัณฑิตวิทยาลัย จุฬาลงกรณ์มหาวิทยาลัย

พ.ศ. 2537

ISBN 974-584-990-1

ลิขสิทธิ์ของบัณฑิตวิทยาลัย จุฬาลงกรณ์มหาวิทยาลัย

IDENTIFICATION AND PHARMACOGNOSTIC SPECIFICATION  
OF THIAN-TUNG-KHAO



Mrs. Pranom Dechwisissakul

A Thesis Submitted in Partial Fulfillment of the Requirements  
for the Degree of Master of Science in Pharmacy  
Department of Pharmaceutical Botany

Graduate School

Chulalongkorn University

1994

• ISBN 974-584-990-1

Thesis Title Identification and Pharmacognostic Specification  
of Thian-tung-khao

By Mrs. Pranom Dechwisissakul

Department Pharmaceutical Botany

Thesis Advisor Associate Professor Laddawan Boonyaratanakornkit, M.Sc.



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Accepted by the Graduate School, Chulalongkorn University in  
partial fulfillment of the requirements for the Master's Degree

*Santi Thongsuwan*..... Dean of Graduate School  
(Associate Professor Santi Thongsuwan, Ph.D.)

Thesis Committee

*Rapepol Bavovada*..... Chairman  
(Associate Professor Rapepol Bavovada, Ph.D.)

*B. K. Laddawan*..... Thesis Advisor  
(Associate Professor Laddawan Boonyaratanakornkit, M.Sc.)

*Nijsiri Ruangrungrui*..... Member  
(Associate Professor Nijsiri Ruangrungrui, M.Sc.)

*Wanchai De-Eknamkul*..... Member  
(Associate Professor Wanchai De-Eknamkul, Ph.D.)



ประพนอม เลขวิทยัญญ์ลกุล : การพิสูจน์เอกลักษณ์และจัดทำข้อมูลจำเพาะทางเภสัชเวทของ  
เทียนทั้ง 9 (IDENTIFICATION AND PHARMACOGNOSTIC SPECIFICATION OF THIAN  
-TUNG-KHAO) อ.ที่ปรึกษา : รศ. สัตตาวัลย์ บุญรัตนกรกิจ, 263 หน้า. ISBN  
974-584-990-1

จัดทำการศึกษาสมุนไพร เพื่อพิสูจน์เอกลักษณ์และจัดทำข้อมูลจำเพาะทางเภสัชเวทของเทียน  
ทั้ง 9 ได้แก่ เทียนดำ เทียนแดง เทียนขาว เทียนขาวเปลือก เทียนตาดักแตน เทียนเขาวพาณี เทียน-  
สัตตบุษย์ เทียนตากบและเทียนเกล็ดหอย โดยจัดทำการเพาะปลูกเมล็ดเทียนแต่ละชนิด แล้วนำลักษณะ  
ของต้นที่ปลูกโตมาจำแนกชนิดของพืช เพื่อให้ได้ชื่อวิทยาศาสตร์ที่ถูกต้องของเทียนแต่ละชนิด

จัดทำข้อมูลจำเพาะทางเภสัชเวท โดยจัดทำการศึกษาเทียนแต่ละชนิด ได้แก่ ศึกษาทาง  
สัณฐานวิทยาของสมุนไพร ได้แก่ รูปร่าง ลักษณะ ขนาด สี กลิ่น รส ศึกษาทางจุลทรรศน์คำศัพท์ ได้แก่  
ศึกษารูปร่างลักษณะของเซลล์ และโครงสร้างของเนื้อเยื่อ ศึกษาลักษณะของผงสมุนไพร นำส่วนสกัด  
ของเทียนแต่ละชนิดมาศึกษาทางโครมาโตกราฟฟีชนิดผิวบาง โดยวิธี 1 มิติ (one-dimensional)  
และ 2 มิติ (two-dimensional) ศึกษาการดูดกลืนแสงของสารประกอบทางเคมีภายใต้แสงเหนือม่วง  
(ultraviolet)

ผลการศึกษาสามารถพิสูจน์เอกลักษณ์ และได้ข้อมูลจำเพาะของเทียนแต่ละชนิด ซึ่งแสดงผล  
ด้วยภาพและตารางประกอบคำบรรยาย นอกจากนี้ยังได้ทำการเปรียบเทียบลักษณะต่าง ๆ ที่จัดทำ  
การศึกษาของเทียนทั้ง 9 เพื่อให้สามารถนำไปใช้เป็นข้อมูลในการจำแนกชนิดของเทียนทั้ง 9 ได้

ศูนย์วิทยทรัพยากร  
จุฬาลงกรณ์มหาวิทยาลัย

ภาควิชา.....เภสัชพฤกษศาสตร์.....  
สาขาวิชา.....เภสัชพฤกษศาสตร์.....  
ปีการศึกษา 2537.....

ลายมือชื่อนิติ.....  
ลายมือชื่ออาจารย์ที่ปรึกษา.....  
ลายมือชื่ออาจารย์ที่ปรึกษาร่วม.....



## C575361 : MAJOR PHARMACEUTICAL BOTANY

KEY WORD: THIAN-TUNG-KHAO/ SPECIFICATION/ PHARMACOGNOSTIC STUDY/ CHROMATOGRAPHIC STUDY

PRANOM DECHWISSAKUL : IDENTIFICATION AND PHARMACOGNOSTIC

SPECIFICATION OF THIAN-TUNG-KHAO. THESIS ADVISOR : ASSO. PROF.

LADDAWAN BOONYARATANAKORNKIT, M.Sc. 263 pp. ISBN 974-584-990-1

An investigation of selected group of crude drugs called "Thian-tung-khao" was carried out for identification as well as establishment of pharmacognostic specifications of Thian-tung-khao. These are Thian Dam, Thian Dang, Thian Khaao, Thian Khaoplueak, Thian Taatakkataen, Thian Yaowapanee, Thian Sattabut, Thian Taakob and Thian Klethoi. Planting of each kind of Thian was carried out and the characteristic informations of each plant were used for the identification in order to obtain a correct botanical origin.

Pharmacognostical specifications were established by detailed studying of each kind of Thian which included morphology as well as other properties of medicinal plants such as shape, size, color, odor, and taste; microscopical study concerning cell characters and cell structures, characters of powder; chromatographic study of their alcoholic extracts both one-dimensional and two-dimensional TLC and ultraviolet absorptions of the extract.

Identification and pharmacognostic specifications of each kind of Thian were established with tables and picture illustration. In addition, comparison of several characters of Thian-tung-khao was performed in order to be used for the unknown identification of Thian-tung-khao.



# ศูนย์วิทยทรัพยากร จุฬาลงกรณ์มหาวิทยาลัย

ภาควิชา.....เภสัชพฤกษศาสตร์

สาขาวิชา.....เภสัชพฤกษศาสตร์

ปีการศึกษา 2537

ลายมือชื่อนิสิต.....*พ.น. ภารวณิช*

ลายมือชื่ออาจารย์ที่ปรึกษา.....*ดร.พ.น. ภารวณิช*

ลายมือชื่ออาจารย์ที่ปรึกษาร่วม.....



## ACKNOWLEDGEMENTS

The author wishes to express her deepest gratitude to the followings who assisted in completing this thesis:

Associate Professor Laddawan Boonyaratanakornkit for her invaluable suggestions, her encouragement, and her kindness throughout the research study.

Associate Professor Dr. Rapepol Bavovada for his helpful advices for the research.

Ms. Suthida Chaiyaraj for her support on medicinal plant information.

Mrs. Jaree Bansiddhi for her suggestion in plant description.

Mr. Chatree Charnprasert for his advices on the planting of Thians.

Mr. Theerawut Pinthong for his helpful advices in operating the UV spectrometer.

Dr. Wutichai Nutakul for reviewing this manuscript.

Mr. Surat Wanpetch for his assistance in preparing this manuscript.

Other members of the department of Pharmaceutical Botany for their kindness, friendships and encouragement.

The graduate school of Chulalongkorn University for the partial support of this research.



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## ABBREVIATIONS

°C	= degree Celsius
cm	= centimeter
dm	= decimeter
Fig.	= figure
g	= gram
hr	= hour
uL	= microliter
ml	= milliliter
min	= minute
mm	= millimeter
nm	= nanometer
TLC	= Thin-layer chromatography
UV	= ultraviolet
$\lambda_{\max}$	= wavelength at maximum absorption in nanometer

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