กระสวนของอัลกาลอยคในใบโงบ



นางสาวสุนทรี วิทยานารถไพศาล

005808

วิทยานิพนธนี้เป็นส่วนหนึ่งของการศึกษาตามหลักสูตรปริญญาเภสัชศาสตรมหาบัณฑิต ภาควิชาเภสัชพฤกษศาสตร์ บัณฑิตวิทยาลัย **จุฬาลงกรณ์มหาวิทยาลั**ย พ.ศ. 2522

ALKALOIDAL PATTERN IN THE LEAVES OF UNCARIA HOMOMALLA

MISS SUNTAREE VITAYANATPAISAN

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

1979

Thesis Title Alkaloidal Pattern in the Leaves of Uncaria homomalla By Miss Suntaree Vitayanatpaisan Department Pharmaceutical Botany Thesis Advisor Associate Professor Payom Tantivatana, Ph.D. Assistant Professor Dhavadee Ponglux, Ph.D. Accepted by the Graduate School, Chulalongkorn University in partial fulfillment of the requirements for the Master's degree. S. Buunag

Dean of Graduate School (Associate Professor Supradit Bunnag, Ph.D.) Thesis Committee: Vichear firawongse Chairman (Professor Vichiara Jirawongse. Payon Tanlivalana (Associate Professor Payom Tantivatana, Ph.D.) Bonerung Taulisewie Member (Assistant Professor Bamrung Tantisewie, B.Sc. in Pharm.) Dhavadee Porglux Member (Assistant Professor Dhavadee Ponglux, Ph.D.)

Copyright of the Graduate School, Chulalongkorn University

พัวข้อวิทยานีพนธ์ กระสวนของอัลกาลอยค์ในใบโงบ

ชื่อนิสิต นางสาวสุนทรี วิทยานารถไพศาล

อาจารย์ที่ปรึกษา รองศาสตราจารย์ คร. พยอม ตันติวัฒน์

ผู้ช่วยศาสทราจารย์ คร. ธาวดี ผองลักษ์ณ์

ภาควิชา เภสัชพฤกษศาสตร์

ปีการศึกษา 2521



บทคักยอ

จากการทึกษากระสวนของอัลกาลอยท์ในในโลย (Uncaria homomalla Miq.)
กลอกปีกรวจพบ pentacyclic oxindoles ที่มีปริมาณสูงสิชนิก คือ isopteropodine,
pteropodine, speciophylline และuncarine F ปริมาณของอัลกาลอยทั้งสิชนิกเปลี่ยน
แปลงทุกเคือน นอกจากนี้ยังพบรองรอยของ tetrahydroalstonine ซึ่งเป็น pentacyclic
heteroyohimbine และ angustine ซึ่งเป็น pyridino-indolo-quinolizidinone; ใน
บางเกือน

Thesis Title Alkaloidal Pattern in the Leaves of Uncaria homomalla

Name Miss Suntaree Vitayanatpaisan

Thesis Advisor Associate Professor Payom Tantivatana, Ph.D.

Assistant Professor Dhavadee Ponglux, Ph.D.

Department Pharmaceutical Botany

Academic Year 1978

ABSTRACT

The studies of alkaloidal patterns in the leaf of <u>Uncaria</u>

homomalla Niq. collected from the same plant at regular monthly
intervals throughout a year indicated the presence of major pentacyclic exindeles, i.e. isopteropodine, pteropodine, speciophylline and
uncarine F in all samples. The quantities of these four exindeles
varied from month to month. Traces of tetrahydroalstonine, a
pentacyclic heteroychimbine and angustine, a pyridino-indoloquinolizidinone were found to be present only in some samples.

ACKNOWLEDGEMENTS

The author wishes first to express her sincere gratitude and thanks to her advisor, Associate Professor Dr. Payom Tantivatana, Head of the Department of Pharmaceutical Botany, Chulalongkorn University Faculty of Pharmaceutical Sciences, for her ideas, keen interest and encouragement during the course of practical work and presentation of the thesis.

The author also wishes to express her sincere gratitude and thanks to her advisor, Assistant Professor Dr. Dhavadee Ponglux of the Department of Pharmacognosy, Chulalongkorn University Faculty of Pharmaceutical Sciences, for her helpful guidances, keen interest and presentation of the thesis.

The author would like to express her appreciation to Professor Dr. Vichiara Jirawongse, and Assistant Professor Bamrung Tantisewie, the former and the present Head of the Department of Pharmacognosy, Chulalongkorn University Faculty of Pharmaceutical Sciences, respectively, for their very useful suggestions.

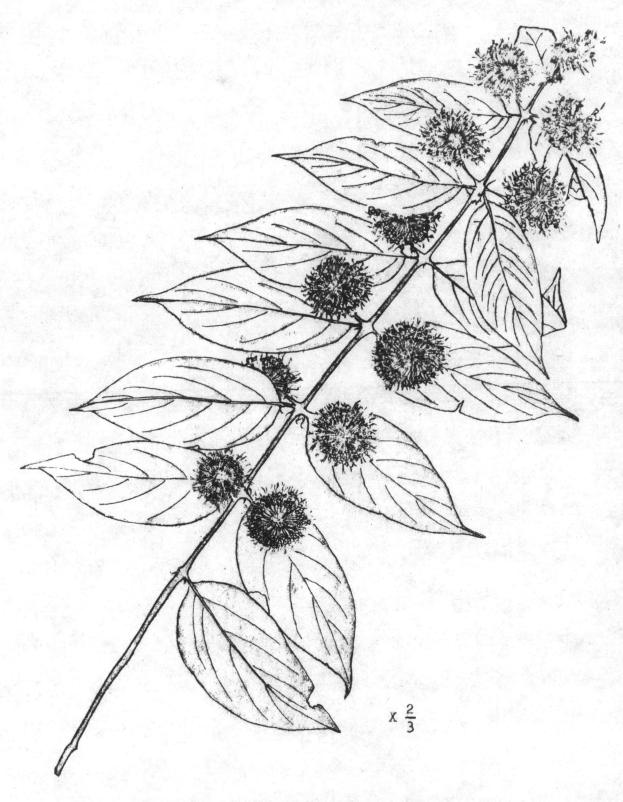
The author is grateful to Assistant Professor Laddawan Boonyaratanakornkit of the Department of Pharmaceutical Botany, Chulalongkorn University Faculty of Pharmaceutical Sciences, for her valuable suggestions.

The author also wishes to thank Assistant Professor Rapepol Bavovada of the Department of Pharmaceutical Botany, Chulalongkorn University Facculty of Pharmaceutical Sciences, for his kindness in

supplying plant materials and great favour.

The author is grateful to all the staff members of the Departments of Pharmaceutical Botany and of Pharmacognosy, Chulalongkorn
University Faculty of Pharmaceutical Sciences, for their helps.

Finally the author thanks Chulalongkorn University Graduate School for granting her partial financial support (of four thousand and five hundred Baht) to conduct this research.



Ngop, "Tau" Uncaria homomalla Miq. (Rubiaceae)