EFFECTS OF MONOSODIUM GLUTAMATE ON GROWTH AND REPRODUCTIVE CAPACITY IN FEMALE RATS

PISAMAI MAUNGDED

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

MASTER OF SCIENCE
IN PHYSIOLOGY

Copyright Chiang Mai University

GRADUATE SCHOOL

CHIANG MAI UNIVERSITY

MARCH 1995

EFFECTS OF MONOSODIUM GLUTAMATE ON GROWTH AND REPRODUCTIVE CAPACITY IN FEMALE RATS

PISAMAI MAUNGDED

THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL

FULFILLMENT OF THE REQUIREMENTS FOR THE

DEGREE OF MASTER OF SCIENCE

IN PHYSIOLOGY

EXAMINING COMMITTEE
Wow Formayathap. CHAIRMAN
Associate Professor Dr. Udom Boonayathap C. Raynyflaga
Assistant Professor Dr. Chucheep Praputpittaya Anchelee Pongchaidliche MEMBER
Dr. Anchalee Pongchaidecha
a. Opisariyakul. MEMBER
Associate Professor Dr. Amphawan Apisariyakul

DATE 31 MONTH MARCH YEAR 1995

Copyright of the Graduate School Chiang Mai University

ACKNOWL EDGEMENT

I would like to express my extreme gratitude to my advisor,
Associate Professor Dr. Udom Boonayathap, the Head of Department of
Physiology, for his constant supervision, guidance and encouragement
throughout the period of my graduate study.

I am very deeply grateful to my co-advisor, Assistant

Professor Dr. Chucheep Praputpittaya for his helpful advice, comments,
continuous encouragement and suggestions. This thesis could not have
been accomplished without his understanding and gracious assistance.

I am also deeply grateful to Dr. Anchalee Pongchaidecha and Associate Professor Dr. Amphawan Apisariyakul, my thesis committee, for their valuable comments, suggestions and corrections of this thesis.

Special thanks to Mr. Sombat Matayabun, the scientist of Endocrinology Unit, Department of Medicine, Faculty of Medicine, for his kindness and helpful advice.

Sincerely thankful to all members in the Department of Physiology, Faculty of Medicine, Chiang Mai University for their kindness and co-operation.

I especially wish to express my heartfelt thanks to my parents and family for their love, kindness, support and encouragement throughout my life.

Finally, I am deeply indebted to my Lord, Jesus Christ, who gives me all and be with me all the way.