



POLYPHENOL CONSTITUENTS IN SELECTED EDIBLE FLOWERS AND THEIR ANTIOXIDANT ACTIVITIES

**By
ONANONG KAISOON**

**Presented in partial fulfillment of the requirements for
the Doctor of Philosophy in Food Technology
July 2011**

All rights reserved by Maharakham University



**POLYPHENOL CONSTITUENTS IN SELECTED EDIBLE
FLOWERS AND THEIR ANTIOXIDANT ACTIVITIES**

**By
ONANONG KAISOON**

**Presented in partial fulfillment of the requirements for
the Doctor of Philosophy in Food Technology
July 2011**

All rights reserved by Maharakham University





The examining committee has unanimously approved this thesis, submitted by Miss Onanong Kaisoon, as a partial fulfillment of the requirements for the Doctor of Philosophy degree in Food Technology, Maharakham University.

Examining Committee

<i>Rumpai Gaensakoo</i> (Asst. Prof. Dr. Rumpai Gaensakoo)	Chairman (Faculty graduate committee)
<i>Sth S.</i> (Assoc. Prof. Dr. Sirithon Siriamornpun)	Committee (Advisor)
<i>Natthida Weerapreeyakul</i> (Assoc. Prof. Dr. Natthida Weerapreeyakul)	Committee (Co-advisor)
<i>Naret Meeso</i> (Dr. Naret Meeso)	Committee (Co-advisor)
<i>Sunan Butsat</i> (Asst. Prof. Dr. Sunan Butsat)	Committee (External expert)

Maharakham University has granted approval to accept this thesis as a partial fulfillment of the requirements for the Doctor of Philosophy degree in Food Technology.

Rumpai Gaensakoo
.....
(Asst. Prof. Dr. Rumpai Gaensakoo)
Dean of the Faculty of Technology

Paitool Suksringarm
.....
(Assoc. Prof. Dr. Paitool Suksringarm)
Dean of the Faculty of Graduate Studies
..... July 11, 2011

**This thesis was granted by the acknowledge the Office of the Higher Education
Commission, Thailand, for support by a grant for this research under
the program Strategic Scholarships for Frontier Research
Network for the Ph.D. Program Thai Doctoral Degree**

and

**This thesis was granted by Maharakham University Scholarship
for Graduates Research in 2010**

