



**THESIS APPROVAL**  
**GRADUATE SCHOOL, KASETSART UNIVERSITY**

\_\_\_\_\_  
Doctor of Philosophy (Organic Chemistry)

**DEGREE**

\_\_\_\_\_  
Organic Chemistry

**FIELD**

\_\_\_\_\_  
Chemistry

**DEPARTMENT**

**TITLE:** Part I: Synthesis of Naphthoquinone Ester Derivatives with Anticancer and Antimalarial Activities  
Part II: Synthesis of Naphthol Derivatives with Anti-inflammatory Activity  
Part III: Application of Three-Component Palladium-Catalysed Cascade Reaction of Diketopiperazine and 1,4-Benzodiazepine Derivatives

**NAME:** Mr. Komkrit Hasitapan

**THIS THESIS HAS BEEN ACCEPTED BY**

\_\_\_\_\_  
**THESIS ADVISOR**

( Associate Professor Ngampong Kongkathip, Ph.D. )

\_\_\_\_\_  
**COMMITTEE MEMBER**

( Associate Professor Boonsong Kongkathip, Ph.D. )

\_\_\_\_\_  
**COMMITTEE MEMBER**

( Mr. Chak Sangma, Ph.D. )

\_\_\_\_\_  
**COMMITTEE MEMBER**

( Professor Ron Grigg, Ph.D. )

\_\_\_\_\_  
**DEPARTMENT HEAD**

( Assistant Professor Noojaree Prasitpan, Ph.D. )

**APPROVED BY THE GRADUATE SCHOOL ON** \_\_\_\_\_

\_\_\_\_\_  
**DEAN**

( Associate Professor Vinai Artkongharn, M.A. )