

**CHEMICAL COMPOSITIONS OF ESSENTIAL OILS  
FROM *Zanthoxylum piperitum* AND *Anethum  
graveolens* L. SEEDS AND THEIR  
ANTIFUNGAL ACTIVITIES  
ON *Aspergillus flavus***

**CHORPAKA PHUANGSRI**

**MASTER OF SCIENCE  
IN BIOTECHNOLOGY**

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**GRADUATE SCHOOL  
CHIANG MAI UNIVERSITY  
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**THEIR ANTIFUNGAL ACTIVITIES**  
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**CHORPAKA PHUANGSRI**

**A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIAL**  
**FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF**  
**MASTER OF SCIENCE**  
**IN BIOTECHNOLOGY**

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THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF  
THE REQUIREMENTS FOR THE DEGREE OF  
MASTER OF SCIENCE  
IN BIOTECHNOLOGY

**Examination Committee :**

Griangsak Chairote.....Chairman  
(Assoc. Prof. Dr. Griangsak Chairote)

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Nuchnipa Nuntawong.....Co-advisor  
(Asst. Prof. Dr. Nuchnipa Nuntawong)

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