



**CHLOROPHYLL AND CAROTENOID CONTENTS,  
TYROSINASE INHIBITION, ANTIBACTERIAL AND  
ANTIOXIDATIVE PROTEIN DAMAGE ACTIVITIES OF  
GYNURA PROCUMBENS EXTRACT**

**NIWAT KAEWSEEJAN**

**A thesis submitted in partial fulfillment of the requirement for  
the Master of Science degree in Chemistry  
Mahasarakham University**

**November 2011**

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The examining committee has unanimously approved this thesis, submitted by Mr. Niwat Kaewseejan, as partial fulfillment of the requirements for the Master of Science degree in Chemistry, Mahasarakham University.

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November 27, 2011

