

**ISOLATION OF GLYCOSIDES BY ELECTROLYTIC  
DECOLOURIZATION AND SYNTHESIS OF  
PENTENOMYCIN**

**WEERACHAI PHUTDHAWONG**

**A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN  
PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE DEGREE OF  
DOCTOR OF PHILOSOPHY  
IN CHEMISTRY**

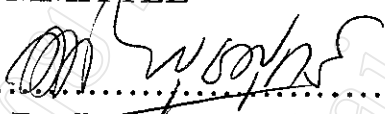
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APRIL 2002**

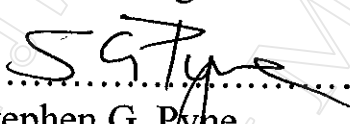
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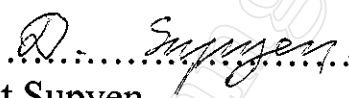
**WEERACHAI PHUTDHAWONG**

**THIS THESIS HAS BEEN APPROVED  
TO BE A PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE DEGREE OF DOCTOR OF PHILOSOPHY  
IN CHEMISTRY**

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‘To my family my teachers and my dear’

‘Experience is the best teacher’

and

‘Where there’s a will, there’s a way’

Weerachai Phutdhawong