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**ALKALOIDS FROM ROOTS AND LEAVES  
OF ALANGIUM SALVIIFOLIUM WANG.  
SUBSP. HEXAPETALUM WANG.**

**Miss Worapan Sitthithaworn**

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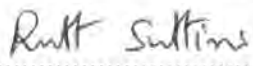
  
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การศึกษาแอลคาลอยด์จากรากและใบปรู้ สามารถแยกแอลคาลอยด์จากสิ่งสกัดในเอธานอลจากส่วนรากได้ 4 ชนิด คือ psychotrine, demethylpsychotrine, emetine และ tubulosine และแยกแอลคาลอยด์จากสิ่งสกัดในเอธานอลจากส่วนใบได้ของผสมของ alangimarckine และ dehydroalangimarckine การพิสูจน์เอกลักษณ์และโครงสร้างทางเคมีของสารที่แยกได้ อาศัยการวิเคราะห์ข้อมูลจากสเปกตรัมของ MS, IR, UV และ NMR ร่วมกับการเปรียบเทียบข้อมูลของสารที่ทราบสูตรโครงสร้างแล้ว

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The study of alkaloids from roots and leaves of *Alangium salviifolium* Wang. subsp. *hexapetalum* Wang. has led to the isolation of psychotrine, demethylpsychotrine, emetine and tubulosine from the roots and a mixture from the leaves of alangimarckine and an alkaloid tentatively identified as 1'-dehydroalangimarckine. The identification and structure elucidation of the isolated compounds were executed by analyses of the MS, IR, UV and NMR spectral data, as well as comparison to previously supported data.

ภาควิชา.....เภสัชเวท.....

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## ABBREVIATIONS

$\epsilon$	= Molar absorptivity
br d	= Broad doublet (for NMR spectra)
br s	= Broad singlet (for NMR spectra)
$^{\circ}\text{C}$	= Degree Celsius
cm	= Centimeter
$^{13}\text{C-NMR}$	= Carbon-13 nuclear magnetic resonance
COSY	= Correlated spectroscopy
DEPT	= Distortionless Enhancement by Polarization Transfer
d	= doublet (for NMR spectra)
dd	= doublet of doublets (for NMR spectra)
DMSO	= dimethyl sulfoxide
$\delta$	= Chemical shift
EIMS	= Electron impact mass spectroscopy
g	= Gram
HMBC	= $^1\text{H}$ -detected Heteronuclear Multiple Bond Coherence
HMQC	= $^1\text{H}$ -detected Heteronuclear Multiple Quantum Coherence
$^1\text{H-NMR}$	= Proton nuclear magnetic resonance
Hz	= Hertz
$\text{IC}_{50}$	= 50 % Inhibition concentration
IR	= Infrared spectrum
$J$	= Coupling constant
Kg	= Kilogram
$\lambda_{\text{max}}$	= Wavelength at maxima absorption
$\text{M}^{\dagger}$	= Molecular ion
m	= multiplet (for NMR spectra)
MeOH	= Methanol
mg	= Milligram

MHz	= Megahertz
MIC	= Minimum lethal concentration
ml	= Milliter
mm	= Millimeter
$m/z$	= Mass to charge ratio
MS	= Mass spectroscopy
No.	= Number
nm	= Nanometer
$\nu_{\max}$	= Wave number at maxima absorption
s	= Singlet (for NMR spectra)
t	= Triplet (for NMR spectra)
TLC	= Thin layer chromatography
TMS	= Tetramethylsilane
UV	= Ultraviolet spectrum