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

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พิมพ์ต้นฉบับบทคัดย่อวิทยานิพนธ์ภายในกรอบสีเขียวนี้เพียงแผ่นเดียว

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การศึกษาแอลคาลอยด์จากรากและใบปรู๋ สามารถแยกแอลคาลอยด์จากสิ่งสกัดในเอธานอลจากส่วนราก ได้ 4 ชนิด คือ psychotrine, demethylpsychotrine, emetine และ tubulosine และแยกแอลคาลอยด์จากสิ่งสกัดในเอธานอลจากส่วนใบได้ของผสมของ alangimarckine และ dehydroalangimarckine การพิสูจน์เอกลักษณ์และโครงสร้างทางเคมีของสารที่แยกได้ อาศัยการวิเคราะห์ข้อมูลจากสเปคตรัมของ MS, IR, UV และ NMR ร่วมกับการเปรียบเทียบข้อมูลของสารที่ทราบสูตรโครงสร้างแล้ว

ภาควิชา เภสัชเวท ลายมือชื่อนิสิต วรพรรณ สิทธิถาวร

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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.

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ABBREVIATIONS

ε	= Molar absorptivity
br d	= Broad doublet (for NMR spectra)
br s	= Broad singlet (for NMR spectra)
°C	= Degree Celsius
cm	= Centimeter
^{13}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
δ	= Chemical shift
EIMS	= Electron impact mass spectroscopy
g	= Gram
HMBC	= ^{1}H-detected Heteronuclear Multiple Bond Coherence
HMQC	= ^{1}H-detected Heteronuclear Multiple Quantum Coherence
^{1}H-NMR	= Proton nuclear magnetic resonance
Hz	= Hertz
IC_{50}	= 50 % Inhibition concentration
IR	= Infrared spectrum
J	= Coupling constant
Kg	= Kilogram
λ_{max}	= Wavelength at maxima absorption
M^{+}	= 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
ν_{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