



Chemical Constituents from *Patrinia villosa* (Thunb.) Juss.

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SUMMARY. *Patrinia villosa* (Thunb.) Juss. (Valerianaceae) is an important Chinese medicine plant widely used for inflammation and wound healing. But little is known about the phytochemical constituents of this plant. A 70% EtOH extract of *P. villosa* was subjected to macroporous resin, normal-phase silica, Sephadex LH-20, ODS silica gel column chromatography, and semi-preparative HPLC chromatography after partitioned with H₂O. Chemical structures of the compounds isolated were elucidated by 1D-NMR, 2D-NMR, and CD spectra analysis, allowing to identify forty compounds: (7*R*,8*R*)-*threo*-7,9,9'-Trihydroxy-3,3'-dimethoxy-8-*O*-4'-neolignan 4-*O*-β-D-glucopyranoside, (7*S*,8*R*)-*erythro*-7,9,9'-Trihydroxy-3,3'-dimethoxy-8-*O*-4'-neolignan 4-*O*-β-D-glucopyranoside, *erythro*-(7*S*,8*R*)-guaiacyl-glycerol-β-*O*-4'-dihydroconiferyl ether 7-*O*-β-D-glucopyranoside, *erythro*-(7*S*,8*R*)-guaiacyl-glycerol-β-*O*-4'-dihydroconiferyl ether 9'-*O*-β-D-glucopyranoside, *threo*-(7*R*,8*R*)-guaiacyl-glycerol-β-*O*-4'-dihydroconiferyl ether 9'-*O*-β-D-glucopyranoside, *erythro*-(7*S*,8*R*)-guaiacyl-glycerol-β-*O*-4'-dihydroconiferyl ether, *erythro*-(7*R*,8*S*)-guaiacyl-glycerol-β-*O*-4'-dihydroconiferyl ether, *threo*-(7*R*,8*R*)-guaiacyl-glycerol-β-*O*-4'-dihydroconiferyl ether, *threo*-(7*R*,8*R*)-1-(4-hydroxy-3-methoxyphenyl) 2-{4-[(*E*)-3-hydroxy 1-propenyl] 2-methoxyphenoxy}-1,3-propanediol and (3*S*,4*R*)-4-hydroxymellein, isolated from the plant for the first time.

RESUMEN. *Patrinia villosa* (Thunb.) Juss. (Valerianaceae) es una importante planta de la medicina china ampliamente utilizada para la inflamación y la cicatrización de heridas. Pero se sabe poco sobre los constituyentes fitoquímicos de esta planta. Un extracto de EtOH al 70% de *P. villosa* se sometió a cromatografía en columna de gel de sílice ODS, resina macroporosa, sílice de fase normal, Sephadex LH-20 y cromatografía de HPLC semi-preparativa después de particionar con H₂O. Las estructuras químicas de los compuestos aislados se elucidaron mediante 1D-NMR, 2D-NMR y análisis de espectros de CD, lo que permitió identificar cuarenta compuestos: (7*R*,8*R*)-*threo*-7,9,9'-Trihidroxi-3,3'- dimetoxi-8-*O*-4'-neolignano 4-*O*-β-D-glucopiranosido, (7*S*,8*R*)-*eritro*-7,9,9'-Trihidroxi-3,3'-dimetoxi-8-*O*-4'-neolignano 4-*O*-β-D-glucopiranosido, *erythro*-(7*S*,8*R*)-guaiacil-glicerol-β-*O*-4'-dihidroconiferil éter 7-*O*-β-D-glucopiranosido, *eritro*-(7*S*,8*R*)-guaiacil-glicerol-β-*O*-4'-dihidroconiferil éter 9'-*O*-β-D-glucopiranosido, *threo*-(7*R*,8*R*)-guaiacil-glicerol-β-*O*-4'-dihidroconiferil éter 9'-*O*-β-D-glucopiranosido, *erythro*-(7*S*,8*R*)-guaiacil-glicerol-β-*O*-4'-dihidroconiferil éter, *erythro*-(7*R*,8*S*)-guaiacil-glicerol-β-*O*-4'-dihidroconiferil éter, *threo*-(7*R*,8*R*)-guaiacil-glicerol-β-*O*-4'-dihidroconiferil éter, *threo*-(7*R*,8*R*)-1-(4-hidroxi-3-metoxifenil) 2-{4-[(*E*)-3-hidroxi 1-propenil]2-metoxifenoxi}-1,3-propanodiol(3*S*,4*R*)-4-hidroxi metilina, aislados de la planta por primera vez.

KEY WORDS: chemical constituent, nuclear magnetic resonance, *Patrinia villosa* (Thunb.) Juss.

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