

Isolation and Identification of New lignans from the Flower of
Osmanthus fragrans var. *aurantiacus* Makino

Do-Gyeong Lee¹, Hee-Jung Park¹, En-Jj Cui¹, Myoung-Chong Song¹, Ha-Na Lyu¹,
Jin-Gyeong Cho¹, In-Sik Jung¹, Se-Young Kim², Nam-In Baek^{1*}

¹Graduate School of Biotechnology & Plant Metabolism Research Center, Kyung-Hee University, ²Department of Oriental Medical Metelials and Processing Kyung-Hee University, Suwon 446-701.

Objectives

Osmanthus fragrans, the genus *Osmanthus* in the family of Oleaceae, is distributed in China, Japan and southern area of Korea. It is evergreen tree, the flowers are hermaphrodite (have both male and female organs) and come out from June to August. They are not only used in cosmetics for the hair and skin but used by Chinese to give a pleasant aroma to tea and wine. Also it was reported that *O. fragrans* has the biological effect of being anti-tussive. Execpt them, there is few report about biological and phytochemical research on this plant.

Materials and Methods

The dried and powdered flowers were extracted with 80% aqueous MeOH, and the concentrated extract was partitioned with EtOAc, *n*-BuOH and H₂O, successively. From the EtOAc fraction, three lignans were isolated through the repeated silica gel, ODS and Sephadex LH-20 column chromatographies.

Corresponding author : Nam-In Baek E-mail: nibaek@khu.ac.kr, Tel: 031-201-2661

Results

According to the results of physico-chemical data including NMR, MS and IR, the chemical structures of the compounds were determined such as tanegool, two new compounds and so on. These lignan compounds have been first isolated from *O. fragrans* in this study.