Yook CS°, Inn MK, Chang JW, Kim YH, Jeong JH

College of Pharmacy, Kyung Hee University, Dongdaemoonku Hoegidong #1, Seoul 130-701, Korea

Dendranthema zawadskii grows wild in all areas of Korea. Its herb and flower have been used as folk medicine for a long time in Korea. Its usages are related to woman's disease, stomach disease, and appetite-induced drug.
The following monoterpene have been found:
(1R)-alpha-pinene, 1-methyl-3-(1-methylethyl)benzene, trans-1-methyl-4-(1-methylethyl)-2-cyclohexene, 2-methyl-5-(1-methylethyl)-(1-alpha,2-alpha,5-alpha)-bicyclo[3,1,0]hex-3-en-2-ol, 1-methyl-4-(1-methylethenyl)benzene, o-isopropentyltoluene.
The following sesquiterpene have been found:
(1-alpha,4a-alpha,8a-alpha)-1,2,3,4,4a,5,6,8a-octahydro-7-methyl-4-methylene-1-(1-methylethyl)naphthalene, (1S-cis)-1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl-7-(1-methylethylidene)azulene.

[PD3-4] [10/19/2000 (Thr) 15:00 - 16:00 / [Hall B]]

Pharmacognostic Studies on Genus Gentiana Plants

Nam JY°, Ryu JH, and Yook CS

Department of Oriental Pharmaceutical Science, College of Pharmacy, Kyung Hee University

Various species of Gentianaceae have been esteemed as restoratives, febrifuges and improvers of the appetite and are recommended in old herbals; the leaves and roots were used medicinally in Korea and China. In this studies, we used 4 kinds of species, such as Gentiana sutchuenensis, Gentiana zollingeri, Gentiana squarrosa and Gentiana thunbergii for the anatomical analysis from roots, stems and epidermis. >From that studies, it was proved that all mentioned above are originated from Gentiana sutchuenensis. And also we purified from the Gentiana sutchuenensis 3-nitro-1,2-benedicarboxylic acid di(2-ethylhexyl)adipiate as essential oils.

[PD3-5] [10/19/2000 (Thr) 15:00 - 16:00 / [Hall B]]

Coumarine Glycosides from Seeds of Fraxinus sieboldiana var.serrata

Yook CS°, Nam JY, Chung JH, Ryu JH, Yang KS, Yang KS[1], Ro SH, and Rho YS

College of Pharmacy, Kyung Hee University and [1]College of Pharmacy, Sook Myung University

Fraxinus sieboldiana var.serrata is distributed in Korea, and the roots and seeds of this species are used as gout, myalgia and rheumatism. The dried seeds of Fraxinus sieboldiana var.serrata were extracted with hot methanol repeatedly to give an extract (50.6 g), which was chromatographed on silica gel with $CHCl_3$-MeOH-H_2O and sephadex LH-20 (MeOH). They were identified as 3β-hydroxy-urs-12-en-28-oic acid, fraxin (formula, $C_{16}H_{18}O_6$, mp. 204-205℃) and aesculin (formula, $C_{15}H_{16}O_6$, mp. 193℃).

[PD3-6] [10/19/2000 (Thr) 15:00 - 16:00 / [Hall B]]