

[Heterocycles, 35, 407-413 (1993)]

[Lab. of Pharmacognosy]

Five Phenolic Compounds in the Underground Parts of *Vancouveria hexandra*.

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In continuation of our study on the chemotaxonomy of Epimediaceae (Berberidaceae), in particular, between *Epimedium* and *Vancouveria*, we tried to isolate of non-glycoside phenolic compound from a lesser polar fraction in the underground parts of *V. hexandra*, which resulted in the isolation of five new compounds, a 2-phenoxybenzochromone and four prenylated flavones. These structures were determined by the spectral analysis.

[Phytochemistry, 33, 203-208 (1993)]

[Lab. of Pharmacognosy]

Seven Phenolic Compounds in the Roots of *Sophora exigua*.

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In addition to two known compounds (5,7,2'-trihydroxy-8-lavandulylflavanone and maackiain), four new flavanones and a novel benzochromone were isolated from the roots of *Sophora exigua*. By means of spectral analysis, the structures were elucidated to be (2S)-5,4,2',4',6'-pentahydroxy-6-lavandulylflavanone (exiguaflavanone C), (2S)-6-isoprenyl-5,7,2',6'-tetrahydroxy-8-lavandulyl-flavanone (exiguaflavanone D), (2S)-5,2',4'-trihydroxy-8-lavandulyl-7,5'-dimethoxyflavanone (exiguaflavanone E), 5,2',5'-trihydroxy-8-lavandulyl-7-methoxyflavanone (exiguaflavanone F) and 5,7-dihydroxy-8-lavandulylbenzochromone (exiguachromone A), respectively.

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[Lab. of Pharmacognosy]

Flavonoids and a Benzofuran in Roots of *Euchresta tubulosa*.

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Our successive chemotaxonomic studies on the genus *Euchresta* have led to the isolation and structural elucidation of new flavonoids. Our attention was drawn to the chemical constituents of *E. tubulosa* because three other species, *E. japonica*, *E. formosana* and *E. horsfieldii*, yielded novel flavonoid compounds. By means of spectroscopic analysis, the structures of five new flavonoids and a new benzofuran were elucidated.