

We have previously given an account of the flavonoids isolated from *Symphyandra pendula* (M. B.) A. DC. [1]. We have continued an investigation of the polyphenols of the leaves and flowers of plants of the genus *Symphyandra* (family Campanulaceae) growing in the Caucasus [2]. From ethanolic extracts after the evaporation of the solvent and the preparative treatment of the residue with water and chloroform, and then ethyl acetate (following Til') we obtained the total flavonoids. In the leaves and flower heads of each of five species, by two-dimensional chromatography on paper we found about ten compounds of polyphenolic nature. By using repeated crystallization of the combined materials from various concentrations of ethanol, and also by fractional chromatography on a column of polyamide sorbent (eluting mixtures: water, chloroform, and ethanol of increasing concentrations) [3], we isolated apigenin [4], luteolin, cynaroside, genkwanin [5], and rutin.

The flavonoids were identified on the basis of chemical and spectroscopic investigations.

Apigenin, luteolin, and cynaroside were isolated from all representatives of the section *Otocalyx* A. DC.: *Symphyandra pendula* (M. B.) A. DC. (Mashuk, Pyatigorsk), *S. transcucasica* (Somm. et Lev.) Grossh. (gorge of the R. Mzymta, Abkhaziya), *S. armena* (Stev.) A. DC. (settlement of Shusha, Nagornyi Karabakh), and *S. daralaghesisca* Grossh. (village of Vardanadzor, Southern Zangezur). Genkwanin was found only in the two last-mentioned species of *Symphyandra* (Armenae series Fed).

No flavones were found in *S. zangezura* Lipsky (village of Dashtun, Southern Zangezur). In contrast to the other *Symphyandra* species studied, this species contains flavonols: rutin and also (in the hydrolysis products) kaempferol, quercetin, and isorhamnetin, which were identified by their melting point, products of alkaline degradation, and UV spectra.

LITERATURE CITED

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