UDC 547.9:582.89

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Seseli talassicum (Korov.) M. Pimen. et Sdobn. is a perennial monocarpic plant of the family Umbelliferae which was previously assigned to the genus Ligusticum (L. talassicum) [1]. According to the results of TLC, the chemical compositions of the roots of plants collected in the Otmek Pass (Talasskii range, Kirghizia) and in the Aksu-Dzhabaglinskii reserve (Kazakhstan) are identical.

The comminuted roots were extracted with petroleum ether, the concentrated extract was distributed between petroleum ether and methanol, and the total coumarins obtained by evaporating the methanolic solution were chromatographed on silica gel L 40/100 μ in the petroleum ether—ethyl acetate system with a gradientwise increase in the concentration of the latter. This yielded the furocoumarin isoimperatorin, $C_{14}H_{14}O_4$, mp 108-109°C, identical according to its IR spectrum and a mixed melting point with an authentic sample, and also a mixture of two diacyloxydihydropyranocoumarins. Rechromatography of this mixture under the same conditions yielded a substance (I), $C_{24}H_{26}O_7$, mp 174-175°C, $[\alpha]_D^{22}$ -30° (c 1.0; CHCl₃), and substance (II), $C_{24}H_{26}O_7$, mp 109-110°C, $[\alpha]_D^{22}$ -12.5 (c 2.0; CHCl₃).

On the basis of the IR and NMR spectra and melting points of mixtures with authentic samples, compound (I) was identified as anomalin and (II) as khellactone disenccioate [2].

Thus, the chemical composition of the species studied confirms the correctness of its assignment to the genus Seseli (section Condensata) [1].

LITERATURE CITED

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