COUMARINS FROM THE ROOTS OF FERULA NEVSKII

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The neutral fraction (10 g) of the resin from the roots of Ferula nevskii Korov. (yield of resin 15%) was chromatographed on Al_2O_3 (600 g, activity grade III, with chloroform as the solvent). The following coumarins were isolated: I) $C_{24}H_{28}O_4$ with mp 185-186° C (from ethanol), M^+ with m/e 380 (mass spectrometry); II) $C_{24}H_{32}O_5$ with mp 176-177° C (from diethyl ether), M^+ with m/e 400 (mass spectrometry). Coumarin I corresponds to badrakemone [1] and coumarin II to samarcandin [2]. Identification of coumarins was based on the absence of a depression of the melting point of mixtures with the corresponding authentic materials and their IR spectra. The roots were collected by A. A. Meshcheryakov in the Turkmen SSR (Kugitang).

REFERENCES

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