

We have studied the coumarin composition of the epigeal part of *Haplophyllum bungei* Trautv., family Rutaceae, collected in Turkmenia in the environs of the town of Mary.

The comminuted raw material was treated with chloroform and the concentrated extract was separated chromatographically on a column of KSK silica gel using as the eluting solvents petroleum ether and mixtures of it with chloroform.

This gave three individual compounds. Substance (I), $C_{15}H_{16}O_3$, with mp 84–85°C, on oxidation with chromium trioxide, gave ostholic acid with mp 254–255°C.

On the basis of its chemical reactions and IR and NMR spectra, it has been established the compound (I) is osthole [1].

From its composition ($C_{15}H_{16}O_4$), melting point (81–82°C), and IR and PMR spectra, substance (II) corresponds to the known coumarin 7-(3',3'-dimethylallyloxy)-6-methoxycoumarin [2].

Substance (III) with the composition $C_{10}H_8O_4$, mp 226–227°C, corresponds to 5-hydroxy-7-methoxycoumarin. A proof of the structure was the preparation of the known natural compound limetin (5,7-dimethoxycoumarin), $C_{11}H_{10}O_4$, mp 144–146°C [3, 4], on methylating substance (III).

LITERATURE CITED

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