

FLAVONOIDS OF *Adonis wolgensis*

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In a study of the epigeal part of *Adonis wolgensis* Stev., the extracts were found to contain the hydroxycoumarins scopoletin and umbelliferone, and also flavonoid substances, which were separated on a column of polyamide sorbent. The column was eluted with chloroform containing various proportions of ethanol. The eluates obtained with chloroform containing 5% of ethanol yielded a flavonoid aglycone ($C_{15}H_{10}O_5$, mp 348-350°C), which was identified as apigenin. With an increase in the concentration of ethanol in the chloroform to 10-12%, a second aglycone was eluted ($C_{15}H_{10}O_6$, mp 328-330°C), which was identified as luteolin. A further increase in the concentration of ethanol to 15-18% led to the elution of a C-glycoside [$C_{21}H_{10}O_{11}$, mp 262-267°C, $[\alpha]_D^{20} +20 \pm 2^\circ$ (c 1.0; ethanol)], which was identified as orientin [1].

The substances were identified by their physicochemical properties and IR and UV spectra. The latter were taken with ionizing and complex-forming reagents. Mixtures of the flavonoids obtained with authentic samples gave no depressions of the melting points.

This is the first time that flavonoid substances have been obtained from *A. wolgensis*.

LITERATURE CITED

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