PHENOLIC COMPOUNDS OF SIBERIAN SPECIES OF THE GENUS *Patrinia*

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We have previously reported the study of the qualitative composition of the flavonoids of *Patrinia intermedia* Roem. et Schult., *P. sibirica* Juss., *P. scabiosifolia* Fisch., and *P. rupestris* Dufr. [1].

To isolate individual phenolic compounds, an extract of the herbage of the plants investigated was subjected to chromatography on Kapron columns and the individual fractions were subjected to preparative chromatography on paper. We give the results of investigations of five substances isolated which are common to the species mentioned.

Substance (I) [mp 198-200°C, R_f 0.27 (2% CH_3COOH, system 1), 0.30 (0.1 N HCl, system 2) 0.80 (BAW (4:1:5), system 3)] and substance (II) [mp 201-204°C, F_f 0.56 (system 1), 0.52 (system 2), 0.61 (system 3)] were identified as caffeic (I) and chlorogenic (II) acids.

Substance (III) with the composition $C_{15}H_{10}O_6$, mp 273-277°C, R_f 0.37 (60% CH_3COOH, system 4), 0.22 (chloroform—acetic acid (3:2), (system 5),0.50 (acetic acid—formic acid—water (10:2:3), (system 6), and substance (IV) with the composition $C_{15}H_{10}O_7$, mp 309-312°C, R_f 0.25 (system 4), 0.7 (system 5), 0.33 (system 6) were identified on the basis of the results of an investigation in the UV region with complex-forming and ionizing reagents (the value $[E^{1\%}_{1\,cm}]$ for substance (III) was 754 and for (IV) 706 and also from the fluorescence of the spots before and after treatment with a 2% methanolic solution of zirconium oxychloride on comparative chromatography with kaempferol (III) and quercetin (IV) as markers.

Substance (V) consisted of a quercetin bioside similar in chromatographic behavior to rutin.

The flowers of the species of *Patrinia* investigated were the richest in flavonoids, but the composition and amount of the flavonoids in them were considerably poorer than for common valerian.

LITERATURE CITED

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