The ethereal solution was separated into acidic, phenolic, and lactone fractions. The acidic fraction was chromatographed on KSK silica gel. On elution with ether, acicular crystals with mp 201–202° C deposited which, on the basis of their IR spectrum, R_f value, and a mixed melting point were identified as the coumarin scopoletin. Then the unsaponifiable neutral fraction was chromatographed on alumina. From a methanolic eluate we isolated a substance with the composition $C_{29}H_{50}O$, mp 139–140° C (from acetone), which gave the Liebermann-Burchard reaction for sterols.

By comparing the IR spectra and R_f values and by means of a mixed melting point test the substance was identified as β-sitosterol. Scopoletin and β-sitosterol have not previously been found in Artemisia dracunculus.

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FLAVONOIDS OF ARMORACIA RUSTICANA AND BARBAREA ARCUATA

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In the epigeal parts of Armoracia rusticana Gaerth. Mey et Scherb. and Barbarea arcuata Rchb. by one-dimensional and two-dimensional paper chromatography and qualitative reactions [1] we have detected not less than five and eight flavonoid substances, respectively. The total flavonoids were separated on a column of Kapron. On elution with aqueous methanol, methanol, and mixtures of chloroform and methanol and of acetone and water, two individual compounds were isolated from the leaves of A. rusticana (X-1 and X-2) and three from the flower clusters of B. arcuata (C-1, C-2, C-3).

As a result of alkaline cleavage and acidic and enzymatic hydrolysis and the features of the IR and UV spectra with ionizing and complex-forming reagents [2–4], X-1, with mp 275–277° C was identified as kaempferol, X-2 with mp 311–313° C as quercetin, C-1 with mp 306–309° C as isorhamnetin, C-2 with mp 166–170° C as isorhamnetin 3-β-D-glucopyranoside, and C-3 provisionally as isorhamnetin 3-β-D-glycosyl-6-β-D-glucoside.

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PHENOLIC COMPOUNDS OF RHODODENDRON LUTEUM

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We have previously reported the isolation from Rhododendron luteum Sweet (pontic azalea) growing in the Ukrainian Poles'e the flavonoids quercetin, hyperoside, and avicularin [1]. From the same species growing in the Caucasus myricitrin