

Substance (VI) was identified as hyperoside (quercetin 3-O-galactoside), $C_{21}H_{20}O_{12}$, mp 237-238°C (aqueous ethanol), $[\alpha]_D^{20} -27.8^\circ$ (c 0.5; methanol), λ_{max} 363, 257 nm [4].

This is the first time that any of these substances have been isolated from this species of milk vetch.

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CHEMICAL COMPOSITION OF THE HERB *Ajuga chia*

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Ajuga chia Schreb (Lamiaceae) is one of the common plants in the south of the European part of the USSR [1]. We have obtained new information supplementing the facts already known about the chemistry of this species [2, 3]. In the process of investigating the chemical composition of the epigeal part of the plant, we have isolated a number of substances and have determined their structures. The raw material was first extracted with acetone and, after drying, it was extracted additionally with methanol. From the acetone fraction by preparative TLC on silica gel (unfixed 0.5-mm layer) in hexane-acetone (75:25), a white microcrystalline substance with mp 287-290°C was obtained that was identical with ursolic acid in its spectral and chromatographic properties.

The methanolic extract was mixed with a small amount of silica gel, and the solvent was driven off. The fraction sorbed on the support was deposited on a column of silica gel in chloroform. Elution was carried out with chloroform containing increasing concentrations of methanol (2, 5, and 10%). As a result, the following compounds were isolated:

Substance (I): mp 267-274°C; UV spectrum, λ_{CH_3OH} , nm: 256, 294, 351; it was characterized as 6,7-dihydroxycoumarin (esculetin);

Substance (II): mp 344-346; UV spectrum, λ_{CH_3OH} , nm: 269, 295 sh, 335; this was 4',5,7-trihydroxyflavone (apigenin);

Substance (III): mp 331-333°C; UV spectrum, λ_{CH_3OH} , nm: 256, 269 sh, 353; this corresponded to 3',4',5,7-tetrahydroxyflavone (luteolin); and

Substance (IV): mp 255-258°C; UV spectrum, λ_{CH_3OH} , nm: 255, 266 sh, 348. Luteoline and glucose were identified in the products of the hydrolysis of (IV); thus, the initial compound was luteoline 7-O-glucopyranoside.

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