

PRELIMINARY INVESTIGATION OF THE GLYCOSIDES
OF *Clematis orientalis*

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Clematis orientalis L. (oriental clematis), collected in the flowering period in the environs of Tbilisi, contains triterpene glycosides, which we isolated by extracting the comminuted roots with aqueous methanol and reprecipitated with acetone. Thin-layer chromatography on silica gel showed the presence in the purified material of about ten compounds, the main one of which, from its R_f value and coloration coincided with the vitalboside F from traveller's joy [1].

By column chromatography on silica gel in the chloroform-methanol-water (65:35:10) system we obtained an individual compound the constants of which were identical with those of vitalboside F. The glycoside was hydrolyzed (2% H_2SO_4 , 100°C, 6 h) and hederagenin was found in the precipitate, and glucose, arabinose, ribose, and rhamnose in the hydrolyzate.

Quantitative analysis of the monosaccharides (in the form of the acetates of the aldonitriles) [2] showed that they were present in a ratio of 2:1:1:1. Gas-liquid chromatography was performed on a Chrom-4 instrument with a flame-ionization detector and a glass column 2 m long and 0.35 cm in diameter filled with Chromaton N-AW-HMCS (0.200-0.250 nm) impregnated with 5% of XE-60 silicone. The rate of flow of the carrier gas, helium, was 60 ml/min and the rate of temperature programming 3°C/min from 180 to 225°C.

LITERATURE CITED

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