

The isolation and pharmacological investigation of the main component of the total saponins of the leaves of *Hedera colchica* C. Koch, (Colchis ivy) — hederacolchiside E, a hexao-side of oleanolic acid — has been reported previously [1, 2]. By repeated partition chromatography of the purified total saponins on a column of silica gel we have now succeeded in isolating accompanying minor constituents of hederacolchiside E: a less polar glycoside, hederacolchiside D, with mp 198–200°C;  $[\alpha]_D^{20} -12.2^\circ$  (c 1.41; methanol), and a more polar compound hederacolchiside F with mp 182–184°C,  $[\alpha]_D^{20} 0^\circ$  (c 1.12; methanol).

On complete acid hydrolysis (7% H<sub>2</sub>SO<sub>4</sub>, 100°C, 6 h), both glycosides split into hederagenin [3] and D-glucose, L-arabinose, and L-rhamnose. The presence of O-acyl glycosidic bonds in the glycosides obtained were shown by their alkaline hydrolysis (5% solution of KOH, 100°C, 3 h). This conclusion was also confirmed by treating the glycosides with diazomethane. The absence of furanose forms of the monosaccharides in both glycosides was shown by treating the saponins with 0.25 N oxalic acid. The recovery of the initial glycosides after this treatment showed that they contained only pyranose monosaccharide rings.

## LITERATURE CITED

1. G. E. Dekanosidze, T. A. Pkheidze, T. T. Gorovits, and É. P. Kemertelidze, *Khim. Prir. Soedin.*, 484 (1970).
2. G. E. Dekanosidze, T. A. Pkheidze, É. P. Kemertelidze, L. I. Mikhailova, A. Z. Tolokneva, and N. K. Frumentov, *Soobshch. Akad. Nauk Gruz. SSR*, 61, No. 3, 609 (1971).
3. L. G. Mzhel'skaya, V. K. Yatsyn, and N. K. Abubakirov, *Khim. Prir. Soedin.*, 421 (1966).