

ALKALOIDS OF *Haplophyllum schelkovnikovii*,
H. villosum, *H. tenue*, AND *H. kowalenskyi*

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We have studied the alkaloids of plants of the genus *Haplophyllum* growing in the Nakhichevan ASSR (AzerbSSR). Plants collected in the period of full flowering and incipient fruit-bearing were investigated. The dried and comminuted raw material was steeped in methanol; 10 steepings were performed. The residue after the distillation of the solvent was distributed between water and ether. The ethereal extract was shaken with acid, and from the acid the alkaloids were extracted in the usual way (Table 1).

In all cases, the combined alkaloids showed as the main components on TLC in the toluene-ethyl acetate-formic acid (5:4:1) and chloroform systems spots coinciding in R_f values with those of skimmianine [1] and γ -fagarine [2], used as markers. By column and preparative chromatography from *H. tenue*, *H. schelkovnikovii*, and *H. Kowalenskyi* we isolated skimmianine and γ -fagarine, and from *H. villosum* γ -fagarine. The alkaloids were identified by direct comparison with authentic samples.

TABLE 1

Species of plant	Time and place of collection	Content of alkaloids, %
<i>H. schelkovnikovii</i> Grossh.	Village of Badamli, Shakhbuz region June 30, 1973	0,01
	Village of Ganza, Ordubad region July 11, 1973	0,008
<i>H. villosum</i> (M. B.) G. Don	Between the villages of Dzhagri and Kul'shanabad, Nakhichevan region July 15, 1973	0,024
	Village of Sibar, Nakhichevan region June 27, 1973	0,02
<i>H. kowalenskyi</i> Stshæg.	Village of Aznabyurt, Nakhichevan region, July 19, 1973	0,013
	Village of Millakh, Dzhul'fa region June 13, 1971	0,015
<i>H. tenue</i> Boiss.	Village of Lizbirt, Nakhichevan region, June 27, 1973	0,14

LITERATURE CITED

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