The purity of five laboratory and five industrial batches of the pharmacopoeial preparation of anabasine hydrochloride and of five laboratory batches of standard anabasine hydrochloride was checked by the above-described method.

No N-nitrosoanabasine was detected in any of the batches, which shows the high purity of the pharmacopoeial preparation and of the standard anabasine hydrochloride.

LITERATURE CITED

- V. P. Zakharov, Kh. A. Aslanov, A. S. Sadykov, and A. I. Ishbaev, Uzb. Khim. Zh., No. 1, 60 (1975).
- 2. Provisional Pharmacopoeial Paper on Anabasine Hydrochloride, No. 42-494-75.
- State Pharmacopoeia of the USSR [in Russian], 10th Ed., Moscow (1968), p. 807.

ALKALOIDS OF Veratrum nigrum. II

N. V. Bondarenko

UDC 547.944/945

From the combined alkaloids extracted by ethers from the roots and rhizomes of Veratrum nigrum L. [1], by chromatography on a column of cellulose [2] we have isolated five alkaloids with Rf 0.1 (I), 0.22 (II), 0.6 (III) (chloroform saturated with formamide; paper impregnated with formamide), 0.47 (IV), and 0.7 (V) (chloroform-benzene (7:3)).

The compounds have been identified by the methods used for the alkaloids of Veratrum lobelianum Bernh. [1, 3-7]. The results of analysis showed that (I) was dideacetylprotoveratrine A [3], (II) was veramarine [4], (III) was germidine [1], (IV) was protoveratrine A, and (V) was verazine [4]. This is the first time that the alkaloids (I-V) have been found in Veratrum nigrum.

LITERATURE CITED

- A. L. Shinkarenko and N. V. Bondarenko, Rast. Res., No. 2, 45 (1966). 1.
- N. V. Bondarenko, A. L. Shinkarenko, and G. I. Gerashenko, Trudy Vitebskogo Tekhologi-2. cheskogo Instituta Legkoi Promyshlennosti, 1, 120 (1970).
- 3. N. V. Bondarenko, Khim. Prir. Soedin., 810 (1972).
- N. V. Bondarenko, Khim. Prir. Soedin., 132 (1973).
- A. L. Shinkarenko and N. V. Bondarenko, Khim. Prir. Soedin., 293 (1966).
- N. V. Bondarenko, Zh. Obshch. Khim., 37, 332 (1967).
- N. V. Bondarenko, in: A Phytochemical Study of the Flora of the Belorussian SSR and Biopharmaceutical Investigations of Medicinal Preparations [in Russian], Leningrad (1975), p. 84.

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