

A STUDY OF THE ALKALOIDS OF *Clivia miniata*

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We have studied the leaves and rhizomes of *Clivia miniata* Regel (family Amaryllidaceae) cultivated in Tashkent. The mixture of bases was extracted from the plant with chloroform. The combined alkaloids were treated with acetone, and lycorine was isolated [1].

Analysis of the material collected in April (1972-1974) for its alkaloid content showed that the leaves contained 0.15-0.21% and the rhizomes 0.26% of combined alkaloids, in which the lycorine amounted to 0.05-0.1%.

After the isolation of the lycorine, the combined alkaloids were chromatographed on a column of alumina (activity grade II) and were eluted with benzene and benzene-ethyl acetate. From the eluates given by benzene-ethyl acetate (1:2) we isolated hippeastrine [2, 3], and from the (1:3) eluate a base (I) with mp 175-177°C (acetone), $[\alpha]_D^{20} -191^\circ$ (c 0.95; chloroform). A mixture of the alkaloid (I) with caranine showed no depression of the melting point, and their IR and mass spectra were also identical [4].

Thus, this is the first time that caranine has been isolated from *C. miniata*. This plant is also a source for the production of lycorine.

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