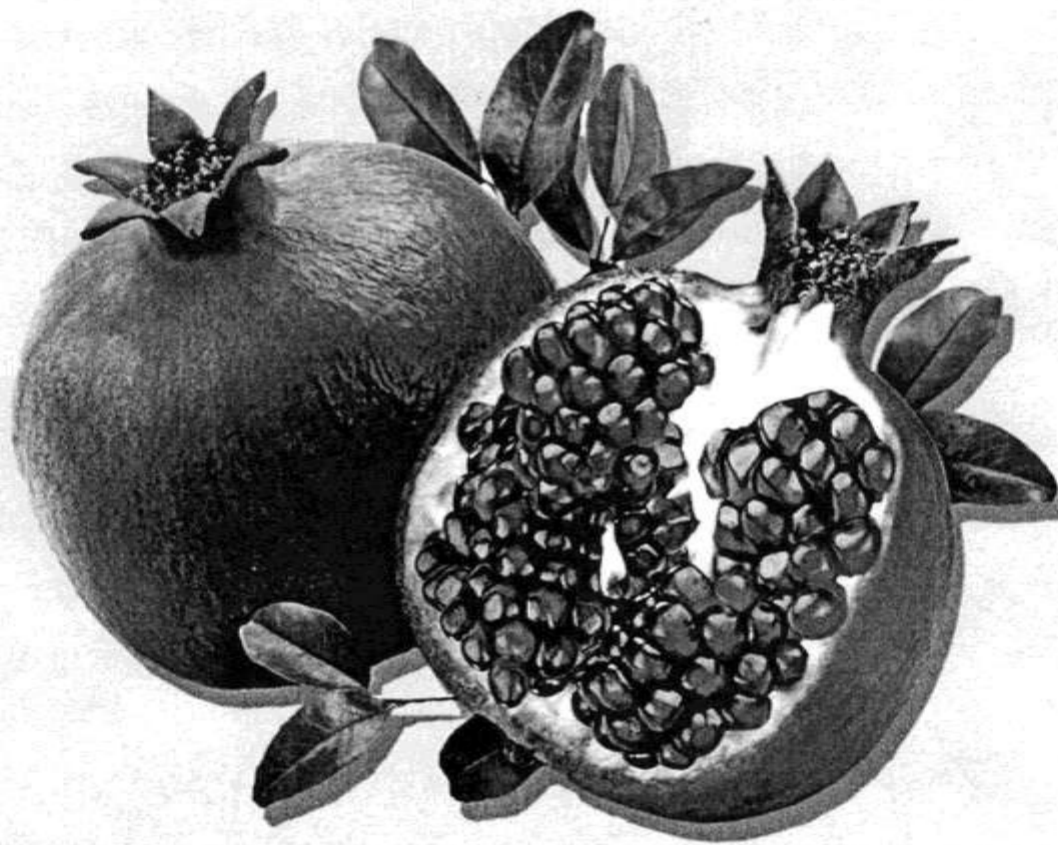


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Phytochemical Investigation of *Leontice Altaicum*

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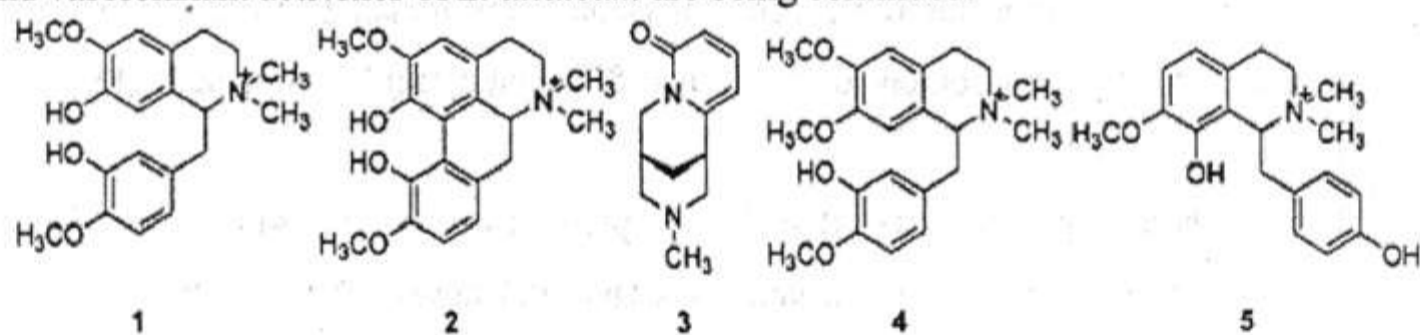
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Leontice altaicum (Berberidaceae) is a folk medicine for the treatment of epilepsy, cold, and perispiration.¹ The Phytochemical constituents from *L. kiangnanensis*, *L. albertii*, *L. leontopetalum*, and *L. smirnowii* include quinolizidine alkaloids, benzyloquinoline alkaloids, and triterpene saponins, with some pharmacological actions such as antioxidant, anticholinesterase, and anti-inflammatory activities.²⁻⁶

In our research for structurally and biologically interesting natural products of the roots of *L. altaicum*, the methanol extract was partitioned with *n*-hexane, CHCl₃, and *n*-BuOH. The CHCl₃ layer was separated using an amino silica gel column, a sephadex LH-20 column, and preparative HPLC to afforded five known alkaloids, tembetarine (1), magnoflorine (2), N-methylcytisine (3), N-methylaudanidine (4), and oblongine (5) together with two saponins for the first time. Their structures were elucidated based by ¹H- and ¹³C-NMR spectra together with ¹H-¹H COSY, HSQC and HMBC spectra.

The investigation of bioactive constituents and evaluation of anti-lipid accumulation and vasorelaxant activities of *L. altaicum* are being continued.



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