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COMPONENTS OF *Artemisia sieversiana*

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The epigeal part of *Artemisia sieversiana* Wild. [~ Sievers' wormwood] collected in the environs of the town of Karaganda in 1980 has been studied.

The raw material (6.5 kg) was extracted with chloroform by the steeping method. The concentrated chloroform extract was dissolved in ethanol (1 liter) and the solution was diluted with an equal amount of water. On standing, a precipitate deposited, and the aqueous ethanolic extract was treated with chloroform. The concentrated chloroform extract was separated by chromatography on alumina (activity grade IV). Elution was performed with hexane, hexane-benzene (7:3, 1:1, and 3:7), benzene, and benzene-acetone (19:1, 9:1, and 4:1).

Compounds were isolated with mp 205°C (I), mol. wt. 280; 170°C (II), mol. wt. 496; 152-153°C (III), mol. wt. 446; 120°C (IV), mol. wt. 398; and 143-145°C (V), mol. wt. 402.

Substance (I) has the composition $C_{15}H_{20}O_5$ and its IR spectrum has absorption bands at λ_{KBr}^{max} (cm^{-1}): 3430, 3470 (OH); 1770 (C=O of a γ -lactone); 1705 (C=C-C=O), and 1635 (C=C). Lactone (I) was identified as artemolin [1], and lactone (II) as absinthin [2].

On the basis of their IR and NMR spectra, compounds (III), (IV), and (V) were assigned to the lignans. Artemolin and lignan compounds have not previously been isolated from *A. sieversiana*.

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