

LITERATURE CITED

1. V. Yu. Bagirov, V. I. Sheichenko, R. Yu. Gasanova, and M. G. Pimenov, *Khim. Prirodn. Soedin.*, 811 (1978) [in this issue].
2. V. S. Kabanov and V. V. Vandyshev, *Khim. Prirodn. Soedin.*, 711 (1974).

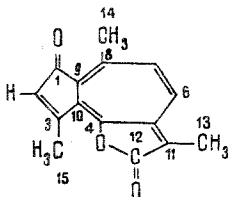
A SESQUITERPENE LACTONE FROM *Ferula malacophylla*

V. Yu. Bagirov, V. I. Sheichenko,
R. Yu. Gasanova, and M. G. Pimenov

UDC 547.615.256.54.011.5

From the combined extractive substances of the fruits of *Ferula macrophylla* [1] by adsorption chromatography on neutral alumina (activity grade IV) we have isolated a previously unreported sesquiterpene compound with the composition $C_{15}H_{12}O_3$ (I), M^+ with m/e 240, mp $256^\circ C$ (decomp.), R_f 0.61, which we have called malaphyllidin. In the IR spectrum of (I) there are adsorption bands at (cm^{-1}) 1745 (CO of a γ -lactone), 1680 (CO of an α,β -unsaturated pentanone), and 1630, 1585, and 1545 (double bonds in conjugation).

The NMR spectrum of malaphyllidin has signals of protons at 2.12, 2.64, and 2.70 ppm (3 =C-CH₃, 3 H each), and 6.88 and 7.18 ppm (=C₆-H and =C₇-H, doublets, 1 H each, $J_{6,7} = 12$ Hz). According to its elementary composition and spectral characteristics, malaphyllidin has the structure of 1-oxoguaia-2,4,5,6,8-pentaen-4,5-olide;



LITERATURE CITED

1. V. Yu. Bagirov, V. I. Sheichenko, R. Yu. Gasanova, and M. G. Pimenov, *Khim. Prirodn. Soedin.*, 810 (1978) [preceding paper in this issue].

V. L. Komarov Institute of Botany, Academy of Sciences of the Azerbaidzhan SSR, Baku. All-Union Scientific-Research Institute of Medicinal Plants, Moscow. Translated from *Khimiya Prirodnikh Soedinenii*, No. 6, p. 811, November-December, 1978. Original article submitted August 1, 1978.