

## ACETYLPECTOLINARIN FROM SOME SPECIES OF *Salvia*

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The flavonoids diosmetin, luteolin, 6-methoxyluteolin, luteolin 7-glucoside, 6-methoxyluteolin 7-methyl ether, 7-O-methyluteolin, hispidulin, cosmosiin, genkwanin, 6-methoxygenkwanin, and salvigenin have previously been isolated from plants of the genus *Salvia* [sage] [1-6].

From two species of sage, *S. glabricaulis* Pobed. and *S. trautvetteri* Regel., and also from a variety of the latter - *S. trautvetteri* var. *karatavica* - we have isolated a substance with the composition  $C_{31}H_{36}O_{16}$  ·  $H_2O$ , mp 242-244°C (from ethanol),  $\lambda_{max}$  276, 330 nm (in methanol).

Hydrolysis of this substance with 10% sulfuric acid gave an aglycone with mp 217-218°C corresponding according to its IR, UV, mass, and NMR spectra to pectolarin, and sugars - glucose and rhamnose, identified by paper chromatography. The compound isolated gave no depression of the melting point with acetylpectolarin [7], and the IR and NMR spectra of these substances coincided.

On the basis of the information given, we have identified the substance from the species of sage investigated as acetylpectolarin.

### LITERATURE CITED

1. É. V. Gella, V. I. Vavilov, and N. P. Beshko, Abstracts of the Second Symposium on Phenolic Compounds [in Russian], Alma-Ata (1970), p. 22.
2. N. Z. Sagdullaeva, R. L. Khazanovich, P. E. Krivenchuk, and A. I. Tikhonov, Abstracts of the Second Symposium on Phenolic Compounds [in Russian], Alma-Ata (1970), p. 45.
3. C. H. Brieskorn and W. Biechele, *Quart. J. Crude Drug. Res.*, **11**, No. 3, 1784 (1971).
4. C. H. Brieskorn and W. Biechele, *Arch. Pharm. und Ber. Dtsch. Pharmaz. Ges.*, **304**, No. 8, 557 (1971).
5. N. Lallement-Guilbert and L. Bezanger-Beauquesne, *Plant Med. et Phytother.*, **4**, No. 2, 92 (1970).
6. A. Ulubelen, S. Öztürk, and S. Jsildatici, *J. Pharmac. Sci.*, **57**, No. 6, 1037 (1968).
7. L. P. Smirnova, G. G. Zapesochayaya, and A. I. Ban'kovskii, Abstracts of the Indo-Soviet Symposium on the Chemistry of Natural Compounds [in Russian], Tashkent (1973), p. 157.

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