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# Composition of Resin Volatile Fraction from *Filipendula ulmaria* (L.) Maxim. Used in Treatment of Various Skin Diseases

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*Filipendula Ulmaria* (L.) Maxim. is a perennial bush widely occurring in Europe, Middle Asia and Siberia.

Resin of *Filipendula Ulmaria* (L.) Maxim. resulting from pyrolysis of its aerial parts and condensation of the emerging vapors has been used in folk medicine as a therapy for various skin diseases since ancient times.

In this view, the constituents of the resin are of great interest for researchers.

Using GS/MS we've studied the volatile structure of resin from *Filipendula Ulmaria* (L.) Maxim. The sample used was from plant material of *Filipendula Ulmaria* (L.) Maxim. collected in the vicinity of Kostanai in 2002. The volatile fraction was obtained by 2-hour water distillation on Clevenger apparatus. The yield of the product obtained was 0.1% of the isolated resin.

The studies were carried out on the gas chromatograph Hewlett-Packard 5890/II with quadrupole mass-spectrometer (HPMSD 5971) as a detector. We used 30-m quartz column HP-5 (copolymer - 5%-diphenyl-95% dimethylsiloxane) with the inner diameter 0.25 m and stationary phase film with the thickness of 0.25 μm.

Total number of the identified components was 26 which is 72.6% of all compounds detected.

It was found that main components of the resinous volatile fraction of *Filipendula Ulmaria* (L.) Maxim. are: ethylquaiacol – 18.0%, 2-metoxy-p-cresol - 10.4%, eugenol - 9.9%, guaiacol - 4.3%. Thus, it was proved that basic constituents of the resinous fraction of *Filipendula Ulmaria* (L.) Maxim. are resinification products, phenol compounds and terpenoids.