

Comparison of Essential Oils Composition from the Leaves and Flowers of *Salvia pratensis* L.

Authors : Valerija Dunkić, Nada Bezić

Abstract : *Salvia* is a genus of the well-known medicinal plant of Lamiaceae family and growing wild throughout the world. This abstract reports the comparison of the essential oils from leaves and flowers composition of *Salvia pratensis* L. from mountain Velebit, Croatia. Water distilled essential oils from aerial parts of investigation plant have been analysed by GC and GC/MS using VF-5ms capillary column. Fifty-three constituents, representing 99.4% of the leaf oil composition; 51 constituents, representing 86.8% of the flower oil composition. Essential oil yield varied from 0.9% to 1.3% in the leaf and flower parts of the plant. The flower essential oil was characterized by a high concentration of E-caryophyllene (21.9%) and germacrene D (10.2%). Major constituents of the leaf oil were linalool (17.7%), linalool acetate (15.3%) and limonene (9.8%). The comparative results clearly indicated that the leaf and flower oil compositions of *S. pratensis* were quite different in terms of major components content. The present study gives additional knowledge about secondary metabolites contents on the genus *Salvia*.

Keywords : essential oil, leaf, flower, *Salvia pratensis* L.

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