

## TERPENOIDS COMPOSITION OF *LAVANDULA ANGUSTIFOLIA* AERIAL PARTS

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Abroad, lavender is widely used as drugs that have antiseptic, antispasmodic and sedative action (Nervofluks, Altaleks, Lalabi etc...). While in Ukraine, lavender is just used as a source of essential oil to produce the drug "Livian" with wound healing action. Essential oil is obtained from the flowers and inflorescence.

In the literature there are data on the biological activity and chemical composition of flowers that have about 20% of the total mass of herb, but the most part of the plants, stem (63%) and leave (17%), was not used in pharmaceutical and medical practices, while the whole plant contains essential oil.

The purpose of the study was to examine the qualitative and quantitative composition of terpenoids in aerial parts of lavender (*Lavandula angustifolia*) to determine its use in pharmaceutical practice.

The objects of study were the flowers, leaves and stems of lavender.

The study of the qualitative composition of the terpenoids was performed by thin layer chromatography on silica gel plates (0.25 mm) using as a mobile phase of toluene - ethyl acetate (85:15) with double running start. To visualize zones of terpenoids, plates were treated by anisaldehyde reagent and heated for 15 min at 105°C. A more detailed study of terpenoids of lavender aerial parts was performed by gas chromatography using a gas chromatograph Agilent Technology 6890 with mass spectrometric detector 5973. Quantitative content of terpenoids was determined by method of normalization.

As a result, it was found that the content of terpenoids in lavender flowers was 0.14%. The dominant components among terpenoids were linalool, linalooloxid and herniarin. Content of terpenoids in the stems was 0,025%, the dominant components were borneol, krypton, para-cymen-8-ol. Content of terpenoids in leaves was 0.05%, the dominant components were 8-acetoxylinalool, 1-acetoxylinalool.

The obtained results indicate the prospects of using aerial parts of *Lavandula angustifolia* as a source for essential oils and medicines.