

## RESEARCH ESSENTIAL OIL TANACÉTUM BALSAMÍTA

Fedyshyn T. A.

Scientific supervisor: Krasnikova T. O. candidate of pharmaceutical sciences,  
associate professor of department of pharmacognosy of NUPh  
National University of Pharmacy, Kharkiv, Ukraine  
tanushkafedishyn@mail.ru

In recent years, not only in Ukraine but all over the world faced the problem of treatment of the most common dermatosis as psoriasis. Sick people of all ages, often young. Psoriasis is a disease which live life. Frequent application of drugs, lead to resistance and lack of therapeutic effect. Therefore there is a need to find new medicines to improve the course of disease and increased remission. For the treatment of psoriasis in folk medicine use water, alcohol and oil extracts from leaves and grass *Tanacétum balsamíta*. The aim was to investigate the chemical composition of essential oils of herbs *Tanacétum balsamíta*, harvested during flowering collectible area botanical garden of NUPh. To achieve this, we have harvested aerial parts *Tanacétum balsamíta* length of 15-20 cm., dried by the rules drying essential oil raw materials and sent for analysis. Definition of quality and quantitative components of essential oils in the grass *Tanacétum balsamíta* performed by chromatography-mass spectrometry in the gas mass spectrometer Apex. The identity of the components was performed using a library of mass spectra NIST02. L. Were identified peak area and retention time. The study found more than 40 volatile compounds identified 21 of them. Of the monocyclic monoterpenes identified D-Limonene; Eucalyptol and their esters. Bicyclic monoterpenes are: Thujon, Trans Pinocarveol, Pinen, Thujol, Myrtenal. Of the bicyclic sesquiterpenes derivatives found Naphthalen. Aromatic compounds are - 2-Cyclohexen-1-one, 2-methyl-5- (1-methylethenyl). In terpenoids found in the grass volatile compounds that belong to carboxylic acids - Pentanoic acid, Butenoic acid. Mostly composed of volatile compounds Thujon (17,37%) and 2-Cyclohexen-1-one, 2-methyl-5- (1-methylethenyl) (50,26%). These classes of compounds exhibit significant antibacterial activity, expressed anti-inflammatory properties. As a result of the study of the *Tanacétum balsamíta* grass harvested during flowering, 19 terpene compounds found in the essential oil were found. Component and quantitative terpenoids can cause antibacterial, antiseptic, anti-inflammatory activity. The predominant among compounds derived terpenes are bicyclic monoterpenes and aromatic compounds. These data can be used to further standardize the raw *Tanacéti balsamíta herba*.