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*Acad. S.Yu. Yunusov Institute of the  
Chemistry of Plant Substances AS RU*

# **12<sup>th</sup> International Symposium on the Chemistry of Natural Compounds**



## **ABSTRACTS**

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**THE STUDY OF THE CHEMICAL COMPOSITION  
OF *Halogeton glomeratus* BELONGING  
TO THE FAMILY *Chenopodiaceae***

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More interest is paid to wild plants because of extensive areas of growth that ensures to provide the public health service needs of medicinal raw materials.

The object of our study is *Halogeton glomeratus* – a perennial plant of the family *Chenopodiaceae*. There are few studies from the chemical point of view. It is used to feed the sheep.

According to conventional techniques of the USSR State Pharmacopoeia and the State Pharmacopoeia of the Republic of Kazakhstan for the aerial parts and roots *Halogeton glomeratus* the amounts of high quality of raw materials: moisture, ash (total ash) and the amount of active substances were determined. Standards providing the definition of authenticity, purity, and goodness of raw materials are the main conditions to ensure the quality of herbal raw materials.

Macro- and micronutrients were identified by the method of atomic absorption spectroscopy in the total ash. Chemical and chromatographic methods of analysis were carried out phytochemical analysis of the major classes of biologically active substances in the aboveground parts and roots of *Halogeton glomeratus*.

For quantitative analysis of the main groups and classes of biologically active substances were used all known methods of numerical analysis. Amino acids, fatty acids and a lipophilic part of the aboveground parts and roots of *Halogeton glomeratus* were identified by the method of gas-liquid chromatography and chromato-spectrometry.

For the first time conditional phytopreparation obtained from the aboveground parts of *Halogeton glomeratus* revealed antileishmanial activity.