

## THE DEFINITION OF NUMERIC INDICATORS FOR THE ROOT OF HARPAGOPHYTUM PROCUMBENS

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**Introduction.** During after years the most pressing health challenges around the world are quality, efficacy and safety of medicines. In most developed countries of Europe, USA and Japan the main activity of the regulatory bodies in the field of medicines is, in particular, the standardization in the field of quality control (Institute of Pharmacopoeia). In Ukraine in this area the world's leading scientific institution is the State enterprise "Ukrainian scientific Pharmacopoeial center for quality of medicines", which is the main developer of the normative document in the field of quality control of drugs – the State Pharmacopoeia of Ukraine (SPU). One of the directions of SPU is the development and introduction of monographs on herbal medicinal raw materials. In this case, the priorities of plant objects in this case are medicinal plants widely used in Ukraine. On the domestic pharmaceutical market registered medicines on the basis of the root of Harpagophytum procumbens, which are used in medical practice for the treatment of diseases of the musculoskeletal system. The quality of the root of Harpagophytum procumbens is regulated by the monograph of the European Pharmacopoeia (EPH) 8.0 "Devil's claw root". The availability of medicines on the basis of harpagophytum on the pharmaceutical market of Ukraine, its widespread use and medical and pharmaceutical practice leads to the development of domestic normative documents.

The **aim** of this work was to study the numerical performance for the root of Harpagophytum procumbens (supplier "Starwest Botanicals", USA), as one of the stages of standardization of raw materials.

**Materials and methods.** EPh monograph "Devil's claw root" regulates the determination of numeric indicators such as loss in weight on drying (not more than 12.0%) and total ash (not more than 10.0%).

**The results of the research.** In the course of the research it was found that the loss on drying in the analyzed sample consisted of  $8.82 \pm 0.23\%$ , the content of total ash amounted to  $3.45 \pm 0.31\%$ .

**Conclusions.** Analyzing the results the obtained experimental data we can conclude on the compliance of plant material – root of Harpagophytum procumbens to the demands of European Pharmacopoeia monograph "Devil's claw root" on such indicators as "loss on drying" and "total ash". Therefore, the data obtained will be used in the development of the monograph State Pharmacopoeia of Ukraine "Harpagophytum procumbens roots".