

THE DEFINITION OF MORPHOLOGICAL AND ANATOMICAL CHARACTERISTICS OF THE RAW MATERIAL OF THE ORCHIDACEAE FAMILY PLANTS

Reva A. S.

Scientific supervisor: assistant Musienko K. S.

National University of Pharmacy, Kharkiv, Ukraine

nastya25069777@gmail.com

Introduction. An important aspect of the development of modern pharmacy is to develop high quality, effective and low-toxic medicines. From this side of attracts the attention of medicinal plant material, especially plants, which have long been used in folk medicine.

Orchids are known primarily as beautiful ornamental plants and are favorite greenhouse plants. But unfortunately nowadays these plants are almost never used as a drug. The Orchid family is called the "aristocrats" among plants. For their beauty and uniqueness, many countries have chosen local orchids as their national symbols.

There have always been a stock of processed roots of this plants available since ancient times. Their healing properties were used in various occasions: they were considered a means of sexual activity stimulating; the roots were burned, driving away bad dreams. The first use of this plant is found as a therapeutic drug for various inflammatory processes on the skin, fever, rheumatism, neuralgia, etc.

Aim. To conduct the study of the morphological and anatomical structural features of the Phalaenopsis orchids plant material.

Materials and methods. The object of the study was the leaves of the Phalaenopsis orchid that were harvested in October 2016.

Results and discussion. A morphological study established the following diagnostic features: Phalaenopsis has monopodal branching stem, covered with usually 2-5 fleshy, leathery leaves which are bright green in color, has oblong-oval form. Leaves are sessile and entire, venation parallel. The top leaves often acuminate. Leaf length ranges from 25 to 50 cm and width 10 cm was Observed sheet outlet.

In the course of anatomical studies of the leaves installed the structural features of the underlying epidermal cells, features of stomata and their type.

Conclusions. The study established a set of features of external and internal structure of the leaves of an Orchidaceae family representative – Phalaenopsis as a promising source of medicinal raw material for making herbal remedies.