

RESEARCH OF THE MOTHERWORT HERB COMPONENTS AND THEIR TINCTURES

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Introduction. Motherwort is a perennial herbaceous plant of the family *Lamiaceae*, which has been used in medicine from ancient times. It is one of the most widely used medicinal plants with sedative effect. Most often used in the form of alcohol tincture. Motherwort preparations have the ability to reduce mental stress, can be used for sleep disorders and hypertension. In addition, there is evidence that motherwort has cardiogenic, anti-inflammatory, antispasmodic and choleric effect.

Motherwort tincture is prepared from the herbs of this plant. The herb consists of the leaves, inflorescences and stems. Very interesting contribution of each component of the raw materials in the total chemical composition and pharmacological effect.

Aim. To determine the percentage maintenance of the herb motherwort components and research the phenolic composition of tincture obtained from the leaves, inflorescences and stems of motherwort.

Materials and methods. Objects of research – herb, leaves, inflorescences and stems of motherwort, alcohol tinctures on their basis, obtained by the classical method in the ratio 1:5. The dry residue was determined by gravimetric method according to the State Pharmacopoeia (SP) of Ukraine. Quantitative determination of flavonoids was carried out in accordance with the monograph SP of Ukraine "Motherwort tincture".

Results and discussion. The herb of the motherwort contains of 40.1 % leaves, 24.5% flowers and 35.4% of stems.

The dry residue in the tinctures from the leaves was 1.09%, from flowers – 1.12% and from stems – 0.69%.

Tincture of motherwort by thin-layer chromatography was identified iridoids and flavonoids (rutin and hyperoside).

The content of flavonoids in tinctures of leaves, inflorescences and stems of 0.06, 0.09 and 0.02 %, respectively. Thus, the content of flavonoids is the smallest in stems and the highest in inflorescences.

Conclusions. In the manufacturing of tincture of motherwort, it is advisable to normalize the content of large stems in the motherwort herb, since their contribution of phenolic compounds to the overall chemical composition of the tincture is the smallest.