

modern medicine for the development of new ointment drugs for the treatment of wound healing and skin diseases.

ETHANOL EXTRACT STANDARDIZATION FROM ACHILLEA MILLEFOLIUM HERB

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There are more than 20 remedies at pharmaceutical market in Ukraine and Russia Federation (like Rotokan, Wundehil etc.) which contain biologically active substances obtained from yarrow herb (*Achillea millefolium*). Still, there is neither monodrug, nor biologically active supplement made of yarrow herb which should be reconsidered as this plant raw material has a broad spectrum of pharmacological activity and can become a basis for creation of new drugs with antimicrobial and anti-inflammatory effect.

The study of extraction procedure shows that liquid extract obtained with the help of 60% ethanol has the highest antimicrobial activity.

The preliminary chemical research of the yarrow herb ethanol extract shows that it contains hydroxycinnamic acid derivatives, coumarins, flavonoids, polyphenolic compounds, chlorophylls and terpenoids. The obtained extract turns out to have antimicrobial activity against gram-positive and gram-negative bacteria and fungi. According to all the data, mentioned above, there is a possibility to develop a new remedy with antibacterial activity from *Achillea millefolii* herb.

Going on with this research, the standardization of the extract should be carried out according to the requirements of the State Pharmacopoeia of Ukraine. Our suggestion is to make the identification of the extract regarding flavonoid and terpene content, make a control of a relative density, ethanol, methanol and 2-propanol content as well as to control the dry residue and heavy metal content,

microbiological purity. The qualitative identification should be performed according to the flavonoid content.

The developed technique was validated according to the main validation parameters. Flavonoid content was measured in six series of obtained extracts and it equals 0.21, 0.16, 0.16, 0.23, 0.21 i 0.38% respectively.

To make a conclusion, it should be said that due to the results of chemical content and antimicrobial activity study as well as standardization of a liquid extract from yarrow herb, *Achillea millefolium* is a perspective plant source for creation of new drugs and biologically active substances with antimicrobial activity.

SOME INFORMATION REGARDING DESMODIUM GENUS STUDIES

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Desmodium genus belongs to Fabaceae family. Representatives of this family are widely used in traditional medicine and are objects of study for receiving phyto drugs, biologically active complexes and various individual compounds, in particular, of flavonoid origin. This genus unites 150 different species widespread mainly in subtropics. *Desmodium mandshuricum* and *Desmodium Oldhamii* are representatives of the South of the Ussuriisk region. Herbaceous species are used as the forage plants, replacing lucerne. They are resistant at a pasture quickly develop and give 3-5 hay crops.

In medicine *Desmodium canadense* is applied for adults and children for local treatment of dermatitis of different origin: psoriasis, atopic dermatitis, neuro dermatitis. *D. pulchellum* is applied to treat rheumatism and lumbago by local warming and anti-inflammatory effect.