

RELEVANCE OF THERAPEUTIC SHAMPOO COMPOSITION DEVELOPMENT

Popova H. N., Babynets Yu. Yu.

Scientific supervisor: PhD, assoc. prof. Kukhtenko H.P.

National University of Pharmacy, Kharkov, Ukraine

galinakukh@gmail.com

Introduction. Analyzing the range of therapeutic and prophylactic shampoos represented in the pharmaceutical market of Ukraine, it was found that from numerous assortment of shampoos, which are available on the shelves of pharmacies only shampoos of line "Fitoval" are classified as medicinal shampoos containing extracts from herbal drugs and included the State Register of medicines. VRM possesses invaluable resources and on its basis many highly efficient drugs have been developed, and its potential is inexhaustible. Since ancient times, decoctions of medicinal plants are considered healers in matters of hair and scalp treatment. A shampoo should have good cleaning properties and in doing so should be soft, harmless to health. This means that a number of detergents must be chosen very carefully. Modern foamy basis is preferably to thicken with natural or semi-synthetic thickeners (xanthan, guar gums, cellulose derivatives, etc.), and the addition of electrolytes that can overdry skin should be avoided.

Aim of the study. Therefore, the aim of our work was to develop therapeutic shampoo containing plant extracts for the treatment of seborrheic dermatitis.

Materials and methods. To develop a soft foamy shampoo bases the following substances were used: Polyquaternium 7, Hydromoiest O, CTAC 30 KC, Dynagen, Stearic acid, Gluadin, WQ Vipirox Piroctone olamine, Lamesoft Care, Betaine, AHA extract 44, Protectagen Losmalol AES 70-2 -24, Nutrilan I 50 BP Keravis PE-LQ-(WD), Cocamidopropyl betaine 30 HI, Zetesol 270 / N. The quality of model shampoo samples evaluated according to State Standard 4315: 2004 "Cosmetics for cleaning the skin and hair."

Results of the study. Shampoo samples were studied on such quality indicators as organoleptic properties, pH, kinematic viscosity, foam value and dry residue. Determination of pH was carried out preparing a 10% solution of the shampoo, foaming property - 3% solution of the shampoo. As a result it was found that the shampoo has foam number of 175 mm, foam stability - is within acceptable limits and is 0.8-1.0 units. pH - $5,5 \pm 1,0$. The data obtained have shown stability of therapeutic shampoo on physical and chemical parameters.

Conclusions. Research has been carried and the shampoo composition has been offered that meets the requirements of State Standard 4315: 2004 "Cosmetic for cleaning the skin and hair."