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THE BOOK OF ABSTRACTS

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DEVELOPMENT OF CAMEL'S THORN THICK EXTRACT OBTAINING TECHNOLOGY AND ITS STUDY

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Introduction: Search and creation of medicinal substances with high pharmacological activity is a primary task of pharmaceutical branch. In this regard of great interest are vegetable raw materials, which are a valuable source of biologically active substances, possessing comprehensive therapeutic action on the body. Alhagi herb is known for its healing properties since ancient times and is used in Kazakhstan folk medicine in various diseases, therefore a prospective direction should be obtaining and study of alhagi thick extract with high active components content with the purpose of medicines creation.
Methods: The object of our studies was the alhagi herb. Performing the work we used a complex of phyto-chemical, technological and microbiological analysis methods by which means was grounded the choice of extractant, studied extraction process dynamics, developed the technology of thick extract obtaining and carried out its chemical and microbiological analysis.
Results: It was found, that of used extractants (purified water, ethanol) the maximum extractive ability has 70% water-ethanol solution (19,37±0,2)%. The thick extract was obtained by filtration extraction method in laboratory conditions. As a result of extraction process dynamics study were justified extraction parameters: ratio raw:extractant 1:6, providing the yield of extractives (14,0±0,3)%, extraction rate – 3-4ml/sec. Thick extract was obtained by condensation of liquid extract on a rotor vacuum evaporator to moisture content 25%. Studying chemical composition it has been found that the thick extract contains (2,4±0,2)% flavonoid structure substances in terms of rutin. Microbiological studies have determined relatively high antimicrobial properties of the thick extract.
Conclusions: As a result of conducted research was developed the technology for thick extract obtaining, carried out the analysis of its chemical composition and described microbiological properties. The studies allow using the thick extract for creating ready medicines of antimicrobial action.

Keywords: Alhagi, extractant, extraction, thick extract, flavonoids, antimicrobial activity.

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