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ABSTRACT BOOK

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Development bases of suppositories for treatment anorectal diseases

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Introduction: The presence of inflammatory processes in the rectum lead to changes in biopharmaceutical parameters due to the destruction of capillaries of the mucous membrane. One of the steps in the pharmaceutical development of rectal dosage forms is the selection of a base, which is a significant factor in creating the required pharmacological effect at the site of the drug. It was established that suppository bases of diphilic type provide better release of active substances, have the necessary technological parameters (homogeneity, time of full deformation, solubility) and better bioavailability. According to previous studies, we have selected a complex of bioflavonoids as active substances [1].

Materials and methods: We used samples of suppositories as the objects of study, which consists the following substances: Witepsol (№1-3), Witepsol with the addition of HPMC (№4-6), Witepsol with the addition of sodium alginate (№7-9) in various ratio, emulsifier *Lanette SX*, the content of the water phase ranged from 20% (№ 1,4,7) to 40% (№ 3,6,9).

Results: According to the results of the study, it was found that the minimum hardness is observed in samples №4-6, maximum - in samples №1, №7-9. The results of pharmaco-technological studies, depending on the content of the water phase showed that it is rational to add the water phase in the amount of 30%. The microscopic method was found that the best distribution of the complex of bioflavonoids observed in the samples with sodium alginate.

Conclusions: The conducted researches show expediency of addition of sodium alginate in the composition of suppositories with the amount of water phase of 30%, which will contribute to the formation of a stable system with the necessary technological parameters.

Reference

1. Borko E. A., Kovalevska I.V. The urgency of creating a new drug for the treatment of anorectal zone diseases with bioflavonoids. "Ukrmedkniga", 2018; 93-94.

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