

# IMPROVEMENT OF COMPOSITION AND TECHNOLOGY OF BILE ACTION CAPSULES

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**Introduction.** In recent years, the Ukrainian pharmaceutical market there is a tendency to expand the range of medicines based on natural raw materials of vegetable origin . This is due to the fact that these drugs in the treatment of sparing effect on the human body and do not have side effects and complications. Such formulations have a lower cost as compared to synthetic analogues.

**Aim.** The main purpose of research is the best justification for the drug - artichoke extract Zdorovye capsules , 100 mg and improve industrial technology of its production. The company LLC " FC " Zdorovye" produced capsules with extracts of artichoke , the contents of which are prepared by wet granulation of powders . The use of this technology does not allow for a lot of high-quality encapsulation with optimal processing properties . These circumstances led to research on the improvement of the composition and preparation technology Artichoke extract Zdorovye - capsules of 100 mg.

**Materials and methods.** The active substance in the composition of the drug is a dry extract of artichoke , which contains a set of biologically active substances specific carbohydrates, hydroxycinnamic acids, phenolic compounds , ascorbic acid, carotene, B vitamins, minerals. This drug has choloretic and hepatoprotective effect. In the study of dry extract of artichoke established that it has small particle size and a very poor turnover that led to the use of various excipients in different proportions. Dry components of formulations , mixed to a homogeneous state and studied basic technological properties obtained masses for encapsulation and qualitative characteristics of capsules that were derived from them.

**Results.** The research showed that the best technological indicators has a pattern composed of, in addition to the dry extract of artichoke include: lactose monohydrate, aerosil, calcium stearate, crospovidone. These excipients provide mass for encapsulation necessary fluidity, precision dosing, mixing uniformity and reproducibility of quantitative composition.

**Conclusions** The composition led to the change of technology of capsules with dry extract of artichoke. The results of studying technological properties masses for encapsulation allow to receive it by direct mixing. The optimum composition of artichoke extract capsules, Zdorovye Capsules 100 mg based on dry extract provides a stable drug that meets all the requirements of regulatory documents and can be implemented in production by LLC "FC" Zdorovye".