

DEVELOPMENT OF HEPATOPROTECTIVE ACTION TABLETS BASED ON PLANT BLEND

Romas K.I, Grubnik I.M.

The National University of Pharmacy, Kharkiv, Ukraine

prom_farm@i.ua

A significant role in the prevention of exacerbations of liver disease and prevention of acute process transition in chronic can be played by herbal medicines. Their action is multifaceted: decoctions of herbs liquefy bile, simultaneously possessing choleretic and anti-inflammatory action, do not allow an infection to get in the biliary tract, restore the tone of biliary system. Herbal medicines therapy in liver diseases should be carried out systematically every 2-3 years.

The aim of the study was the development and study of plant blend, possessing hepatoprotective activity.

At development of a new drug the following substances were investigated: dry extracts of immortelle, mint and tansy.

In order to develop the optimum composition and technology of tablets based on powders of extracts from plant material pharmaco-processing characteristics of the active substances of the dosage form have been studied: bulk density, flowability, compressibility, moisture content, pressing disintegration in water.

As a result of studies on the creation of a new hepatoprotective action phytopreparation, composition and technology of tablets production by wet granulation has been chosen. As auxiliary substances have been tested milk sugar, potato starch, microcrystalline cellulose, croscarmellose sodium, talc and calcium stearate. For the preparation of tablets by wet granulation the optimal humidifier is 7% solution of potato starch, which provides a minimum disintegration time of the tablets obtained.

The effect of excipients on indicators of technological characteristics of the tablet mass and quality indicators of the resulting tablets has been studied. technological parameters have been grounded. In the development of this formulation technology it has been identified, that a significant influence on the quality indicators of tablets, in particular on the strength of tablets to crushing, has a residual moisture of the tablet mass.

The flow chart of the drug production has been composed.