

JUSTIFICATION OF THE MOISTENING AGENT CHOICE FOR EFFERVESCENT TABLETS WITH THICK BIRCH LEAVES EXTRACT

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Introduction. Recently remain relevant researches on creation of solid dosage forms (powders, granules, tablets, solid dispersion systems) with controlled release. Instant (effervescent) dosage forms can be considered as drugs with a given improved bioavailability.

However, the production of effervescent dosage forms has a number of unsolved issues. Despite the apparent proximity of the form effervescent tablets and granules are significantly different from the traditional ones in composition and nature of technology as their main components are gas-forming agents. Given this, the most important trend is the theoretical substantiation and development of practical recommendations on the optimal choice of excipients composition.

As the active pharmaceutical ingredient is proposed to use thick birch leaf extract, which, together with the absence of side effects has a pronounced anti-inflammatory, hypoazotemic activity and promotes the dissolution of urinary concretions.

Aim. To determine the optimal composition of the humidifier for tablets with thick birch leaf extract.

Materials and methods. The objects of the study were granules and tablets with thick birch leaf extract; thick birch leaf extract. As humidifier for obtaining granules used purified water, 3%, 5%, 7% aqueous starch paste, 3%, 5%, 7% aqueous solutions of Kollidon 25. For tablets and granules obtained have been determined pharmaco-technological characteristics.

Results and discussion. In the analysis of pharmaco-technological characteristics of granules obtained using as a humidifier aqueous solution of Kollidon 25 it was determined that they perform better than the granules obtained using starch paste. Analyzing quality indicators of obtained tablets it can be seen that tablets produced using as a humidifier aqueous solution of Kollidon 25, including 5% have better indicators in friability and strength of tablets to crushing.

Conclusions. It has been established that the granules obtained using an aqueous solution of Kollidon 25 have better pharmaco-technological characteristics than using starch paste.

According to the research as a a humidifier for obtaining tablets with thick birch leaf extract was chosen aqueous solution of Kollidon 25 at a concentration of 5%.