

Technological Parameters of Glycyrrhizic Acid Extraction from Licorice Roots and Qualitative Assessment of the Final Product

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Licorice is one of the most significant medicinal plants, and its pharmacological value is primarily determined by the presence of glycyrrhizic acid [1]. The aim of this study was to select an effective extraction method of glycyrrhizic acid from the licorice roots and evaluate the compliance of the resulting product's quality indicators with international standards.

Within the scope of the research, the influence of various technological regimes on the yield of active substances was investigated. Based on the European Pharmacopoeia standards, a qualitative assessment of the raw material and the obtained paste was conducted.

During the analysis, we investigated the influence of extraction duration and temperature regimes on the yield of active substances. The analysis identified the optimal technological regime, which ensured a high concentration of the active substance while minimizing losses. Verification of quality parameters, including ash content and purity, confirmed that the obtained extract fully meets modern pharmaceutical requirements.

The results of this study are important for optimizing the manufacturing process of medicinal products, allowing for the production of high-quality plant-based raw materials.

References:

{1} European Pharmacopoeia (EP), 11th Edition, Monograph 2.2.29.