



INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE

SCIENCE, EDUCATION, AND SOCIAL PRACTICE: INTERDISCIPLINARY RESEARCH AND DEVELOPMENT PERSPECTIVES

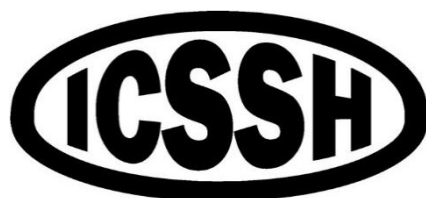
Book of abstracts



January 31, 2026

**Chicago,
USA**





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MEDICAL AND PHARMACEUTICAL SCIENCES

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EXPRESS METHODS FOR QUALITATIVE ANALYSIS OF FELODIPINE AS A TOOL FOR PHARMACEUTICAL QUALITY CONTROL

Felodipine is a vascular-selective dihydropyridine calcium channel blocker, which is widely used in the pharmacotherapy of arterial hypertension. The significant presence of generic felodipine preparations on the pharmaceutical market necessitates reliable and prompt control of the authenticity of the active substance at various stages of pharmaceutical circulation. Pharmacopoeial methods of analysis (HPLC, IR-spectroscopy) are characterized by high accuracy, but are laborious and require complex analytical equipment, which limits their use for express quality control. In this regard, the development of alternative express methods for qualitative identification of felodipine is relevant.

Development and validation of rapid methods for qualitative analysis of felodipine suitable for use in the pharmaceutical quality control system of medicinal products.

The object of the study was felodipine in the composition of dosage forms. The development of express methods was based on analytical reactions of formation of ionic associates with azo dyes [1] and chelate complexes with Fe^{3+} , Cu^{2+} and Ag^{+} ions in two-phase systems water-

chloroform and methanol-tetrachloromethane. Additionally, the fluorescent analytical effect of the formed complexes was investigated. The validation of the methods was carried out according to the indicators of specificity, reproducibility and suitability for qualitative identification.

It was established that felodipine forms stable ionic associates with azo dyes and chelate complexes with metal ions in an acidic environment, which is accompanied by a pronounced analytical effect in the form of a change in the color of the organic phase and the appearance of fluorescence. The reaction conditions (selection of reagents, solvents, pH and phase contact time) were optimized, which ensure high specificity and clear visualization of the results. It was shown that the developed methods allow reliable identification of felodipine in the composition of dosage forms without the use of complex analytical equipment.

Express methods for qualitative analysis of felodipine based on the formation of ionic associates and chelate complexes with an additional fluorescent analytical effect have been developed and validated. The proposed methods are specific, reproducible and suitable for use in intra-pharmacy and expert quality control as a supplement to pharmacopoeial methods.

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