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NATIONAL UNIVERSITY OF PHARMACY

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spectrophotometric procedure for the assay of estradiol valerate in tablets having the possibility of usage of different solvents that provides good accuracy of the results has been developed.

DEVELOPMENT THE DETERMINATION PROCEDURE FOR LIDOCAINE HYDROCHLORIDE IN THE NEW DENTAL DOSAGE FORM

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Introduction. Dental diseases today is fairly common among people around the world. It is well known that these diseases are often accompanied by such an unpleasant symptom as pain. Many drugs for the treatment of dental pathologies contain locally anesthetic agents for the treatment of this symptom.

Lidocaine hydrochloride is one of the most widely used local anesthetics, characterized by fast onset, moderate activity and toxicity and average duration of action. The pharmaceutical market of Ukraine has a fairly large number of drugs containing lidocaine hydrochloride.

Aim. The purpose of our work is to develop methods for qualitative and quantitative analysis of lidocaine hydrochloride in dental gel with choline salicylate and tincture «Phytodent».

Materials and methods. To identify lidocaine hydrochloride in the gel chemical reactions were proposed. Also, for the quantitative determination, the method of extraction spectrophotometry was used.

Results and discussion. For the qualitative analysis of lidocaine hydrochloride, the following reactions are proposed: the reaction of formation the nitro derivatives after interaction with concentrated nitric acid with the subsequent addition of alcoholic potassium hydroxide solution – a reddish brown color with brown precipitate are formed as a result. To confirm the hydrochloride, a reaction with silver nitrate in an acidic medium is proposed. A white precipitate of silver chloride is formed as a result.

The assay of lidocaine hydrochloride in the combined dosage form is proposed to be carried out by extraction spectrophotometry. This method is very specific and allows determining the quantitative content of lidocaine hydrochloride in the presence of choline salicylate and herbal components.

The method consists in the formation of an ion associate of lidocaine with tropeoline in a moderately acidic medium with further extraction by chloroform and measurement of the absorbance at a wavelength of 412 nm. Calculation of quantitative content is proposed to be carried out according to the standard method.

It has been experimentally proved that the other components do not form an ion associate with tropeoline in these conditions.

Conclusions. Methods for identifying and quantifying the lidocaine hydrochloride in the combined dental gel were developed.

DEVELOPMENT OF THE GC / MS METHOD FOR THE DETERMINATION OF ANTIDEPRESSANTS

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Introduction. Among the physicochemical methods used in the analysis of organic substances, the gas-chromatography-mass-spectrometry (GC/MS) method is distinguished by such characteristics as high sensitivity, clarity and, especially, the possibility of determining a small amount of a substance to be tested in complex compounds. It is shown that this method is widely used in the determination of metabolites derived from toxic substances as a result of the metabolic process occurring in the body and in processes where an unknown substance causes intoxication or no standard sample.

One of the most powerful and universal methods for studying the structure of unknown substances in expert laboratories is the gas chromatographic determination with mass spectrometric detection (GC/MS), combining the possibility of a highly selective separation of the mixtures being studied, the