

THE CONTENT OF PROCYANIDINS IN FRUITS OF MOUNTAIN ASH

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Introduction. Mountain ash (*Sorbus aucuparia* L.) from the Rosaceae family is spread all over Ukraine, grows in the underbrush of coniferous and mixed forests, among shrubs, on the woodside; it is widely cultivated. Main active substances are vitamins (carotenoids, ascorbic acid), organic acids (malic, citric, oxalic, sorbic), phenolic compounds (phenol carboxylic acids, catechins, anthocyanins, leucoanthocyanidins, flavonols, tannins) and carbohydrates. They cause multivitamin, diuretic, choleretic, anti-inflammatory, laxative, hemostatic and antioxidant effects of fruits.

Aim. The determination of content of procyanidins in fruits of mountain ash.

Materials and methods. The object of the study were the fruits of the mountain ash, which were harvested in September 2016 in the Botanical Garden of the National University of Pharmacy. The raw material was identified based on herbaria stored at the herbarium fund of the Pharmacognosy Department, NUPH. The content of procyanidins in fruits of mountain ash was determined by the method of absorption spectrophotometry according to the procedure described in the monograph of the State Pharmacopoeia of Ukraine 2.1 "Rosae fructus" on a spectrophotometer "Specord 200" at a wavelength of 555 nm.

Results and discussion. The content of procyanidins in fruits of Mountain ash, which was determined by the method of absorption spectrophotometry, is $0.13 \pm 0.001\%$ (calculated as cyanidin chloride). Statistical processing of the results of the quantitative determination was performed by the method of variance analysis according to the requirements of the State Pharmacopoeia of Ukraine under the program Microsoft Excel 7,0 using the «Statistica» software package.

Conclusions. The content of procyanidins was determined by the method of absorption spectrophotometry in fruits of mountain ash. The obtained results will be considered in the development of the monograph on "Sorbi fructus" in State Pharmacopoeia of Ukraine.

Fruits and leaves of mountain ash is a perspective raw material for further pharmacognostic research and the creation on their basis of medicines of various pharmacological actions.