

INVESTIGATION OF THE MEDICINAL PROPERTIES OF PEACH

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Abstract: *As you know, in the global pharmaceutical sector, almost the bulk of manufactured medicines are made from raw materials of medicinal plants. According to the World Health Organization (WHO), about 80 percent of the world's population uses herbal products. The scientific research conducted by the authors was also aimed at preparing an extract of the leaves of the peach tree, which is considered a medicinal plant in our republic. During the research, the properties of the common peach were revealed, containing biologically active substances, vitamins, minerals, flavanoids and many others of importance for medicine. During the study, the average content of carotenoids in the leaves of ordinary peach was found to be $0.087\% \pm 0.006$ of the quantitative composition, which allows us to conclude that these indicators make it possible to produce medicinal extracts from ordinary peach for use in medicine.*

Keywords: *common peach leaves, carotenoids, medicinal extracts, β -carotene, vitamins, minerals, flavanoids.*

Research methods: in total, five samples of raw materials were analyzed in the study. Quantitative determination of carotenoids was carried out using the FS spectrophotometric method. Performed by the rosehip fruit method according to 2.5.0106.18. The total amount of carotenoids in the extract was determined by spectrophotometric method.

The results obtained: plants contain flavanoids, which give fresh vegetables, berries and fruits a bright yellow, red or orange color. For the metabolic processes taking place in our body, carotenoids play the role of very effective antioxidants. Also Alpha - and beta-carotenes, from which vitamin A is synthesized: an important element of the immune system, a component of cell membranes. It is also involved in strengthening vision and the cornea of the eye. The main and most important function of any carotenoid is related to the antioxidant protection of cells. Any cells need such protection, carotenoids strive to show their effectiveness everywhere to brain cells, blood vessels, heart and other organs of all types. Accordingly, peaches are also a source of carotenoids, the amount of which must be determined in order to prepare a medicinal extract from them. Spectrophotometric methods are quite simple and fast. One of their main advantages is that the presence of chlorophylls does not interfere with the detection of carotenoids. The

qualitative composition of the components can be assessed by taking the absorption spectra of the extract and determining the components by maximum absorption. The results of the quantitative assessment of caratinoids are presented in Table 1.

Table 1.

Composition of carotenoids on β -carotene in ordinary peach leaves

Sample	The amount of carotenoids per β -carotene in peach leaves
N/1	0,088%
N/2	0,090%
N/3	0,085%
N/4	0,080%
N/5	0,092%

The amount of carotenoids per β -carotene in peach leaves № 1 0,088 % № 2 0,090 % № 3 0,085 % № 4 0,080 % № 5 0,092 % according to the results obtained, the first sample contains 0.088% of beta-carotenoids in peach leaves, the second sample contains 0.090%, and the third sample contains 0.085%, and in subsequent samples-0.080 -0.092%. The largest amount of carotenoids for β -carotene was found in the fifth sample.

Table 2

Metrological description of the determination of the amount of carotenoids in peach raw materials

DO'M	N	f	X σ 'rt%	S ²	S	P,%	T(P,f)	Δ X	E,%
Peach Bags	5		1.82	0.00307	0.05541	95	2.78	0.15	8.24

Table 2 data shows that the amount of carotenoids, in terms of β -carotene, was 0.087% \pm 0.00 in common peach leaves.

DISCUSSION

Special attention was paid to the use of a simple and easy method for determining the amount of caratinoids in the leaves of the common peach, as well as the reliability of the result obtained. Because the result obtained using the spectrophotometric method is reanalyzed using mathematical calculations using a methodological description. This indicates the reliability of the results of the study.

CONCLUSION

The research conducted by the authors focused on the preparation of medicinal extract of the leaves of the common peach, and the detection of caratinoids in peach leaves is part of the scientific work. The fact that a simple and easy method of extracting caratinoids from peach leaves was used during the study is an achievement of the study,

and the amount of keratinoid obtained (0.080-0.092%) is also considered sufficient for the preparation of a medicinal extract.

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