STUDYING THE MEDICINAL PROPERTIES OF PEACH

Khozhyeva Laylo Khazratovna

ABSTRACT: *It is known that almost the main part of the drugs produced in the pharmaceutical industry on a global scale is prepared from raw materials of medicinal plants. According to the World Health Organization (WHO), about 80 percent of the world's population consumes plant products. Scientific research conducted by the authors was also aimed at obtaining an extract from the leaves of the peach tree, which is considered a medicinal plant in our country. During the study, the average amount of carotenoids in the leaves of the common peach was equal to 0.087% ± 0.006, and it can be concluded that these indicators allow the preparation of medicinal extracts from the common peach for medical use.*

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

Research methods: In research all existence five raw material example analysis done Quantitative determination of carotenoids was carried out by spectrophotometric method according to FS .2.5.0106.18 "Rose hips implemented in the method plody". The total amount of carotenoids in the extract was determined by spectrophotometric method.

Results: Plants contain flavonoids, which give fresh vegetables, berries and fruits a bright yellow, red or orange color. Carotenoids act as very effective antioxidants for metabolic processes in our body. And vitamin A synthesis needs to be done alpha- and beta-carotene: immunity system important element, cell membranes structural is part of. From this except to see and eye horn curtains in strengthening participation is enough The main and most important function of any carotenoid is associated with antioxidant protection of cells. All cells need this protection, carotenoids are everywhere to show their effectiveness to the cells of the brain, blood vessels, heart and all other organs. Accordingly, peaches are also a source of carotenoids, from which it is necessary to determine the amount

for the preparation of a medicinal extract. Spectrophotometric methods are very simple and fast. One of their main advantages is that the presence of chlorophylls does not interfere with the detection of carotenoids. components quality content of the extract swallowing spectra receive and maximum absorption according to components determine through assessment can Carotenoids quantitative assessment results are presented in Table 1.

Table 1

Composition of carotenoids by β-carotene in peach leaves

Sample	**Amount of carotenoids in peach leaves by β-carotene**
№ 1	**0,088%**
№ 2	**0,098%**
№ 3	**0,085%**
№ 4	**0,080%**
№ 5	**0,092%**

The amount of carotenoids for beta-carotene in the sample of peach leaves No. 1 0.088% No. 2 0.090% No. 3 0.085% No. 4 0.080% No. 5 0.092%. According to the results obtained in the first sample 0.088% carotenoids for beta-carotene in peach leaves in the second sample it was 0.090%, in the third - 0.085%, and in our next samples - 0.080-0.092%. The largest amount of carotenoids for β-carotene was determined in the fifth sample.

Table 2

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

MPF	N	f	X m %	S^2	S	P, %	T(P,	Δ X	E, %
Peach	5	4	1,82	0,00307	0,05541	95	2,78	0,15	8.24

From Table 2 it is seen that the content of carotenoids in terms of β-carotene in the leaves of common peach was 0.087% ± 0.00.

Discussion: During the study, a simple and easy method was used to determine the amount of carotenoids in the leaves of common peach, the reliability of the obtained result deserves special attention. Because the result obtained by the spectrophotometric method is re-analyzed by mathematical calculations through a methodical description. This means that the results of the study are reliable.

Conclusions: The studies conducted by the authors are aimed at obtaining a medicinal extract from the leaves of common peach, and the determination of carotenoids in peach leaves is part of the scientific work. The achievement of the study is that during the study, a simple and easy method was used to extract carotenoids from the leaves of common peach, and the amount of carotenoids obtained (0.080-0.092%) is sufficient for the preparation of a medicinal extract.

Литература

1. Norbuvaevna A. R. et al. Ecological and hygienic application of the accumulation of toxic substances in soil and food products under the influence of agricultural factors //ACADEMICIA: An International Multidisciplinary Research Journal. – 2021. – Т. 11. – №. 11. – С. 836-840.

2. Norbuvaevna A. R., Nurmuminovna G. G., Rukhsora M. HYGIENIC ASSESSMENT OF THE EFFECT OF NITRATES ON HUMAN HEALTH //Archive of Conferences. – 2021. – С. 24-26.

3. Botirov, X. F., & Abdumuminova, R. N. (2013). Winter green manures and peach yields./The text of the materials of the scientific-practical conference" of UzBU and Veterinarian Research Institute factors of development, yield and quality improvement of intensive garden vineyards in the Republic"(12-13 may 2013).).

4. Abdumuminova, R. N. (2013). Environmental factors and peach yield./Materials of the scientific-practical conference devoted to the" Year of prosperity" of professors and teachers on the topic" science achievements and

prospects of agrarian sphere"(10-11 April 2013).)- Part I. Samarkand, Samarkand State Agricultural Institute, 57-53.

5. Narbuvayevna, A. R. N., Murodulloyevna, Q. L., & Abduraxmanovna, U. N. (2022). Environmentally friendly product is a Pledge of our health!. Web of Scientist: International Scientific Research Journal, 3(02), 254-258.

6. Norbuvaevna, A. R., Ergashevna, K. D., Baxramovna, M. M., & Shomuratovna, B. R. (2021). Ecological and hygienic application of the accumulation of toxic substances in soil and food products under the influence of agricultural factors. ACADEMICIA: An International Multidisciplinary Research Journal, 11(11), 836-840.

7. Abdumuminova, R. N. (2016). Effective use of Natural Resources and techniques factors in gardening. Scientific application" Agro science" of the Journal of Agriculture of Uzbekistan.- Tashkent, 6, 42-43.

8. Shaw B, Nagy C, Fountain MT. Organic Control Strategies for Use in IPM of Invertebrate Pests in Apple and Pear Orchards. Insects. 2021;12(12).

9. Narbuvaevna AR, Karimovich BZ, Mahramovna MM. Improving Food Safety and Improving the Fundamentals of Reducing the Negative Effects on The Environment. Eurasian Research Bulletin. 2022;5:41-6.

10. Abdumuminova, R. N. (2017). Requirements of peach to external environmental factors. Journal of Agriculture of Uzbekistan.-Tashkent, 8, 40.

11. Norbuvaevna, A. R., Nurmuminovna, G. G., & Rukhsora, M. (2021, August). HYGIENIC ASSESSMENT OF THE EFFECT OF NITRATES ON HUMAN HEALTH. In Archive of Conferences (pp. 24-26).

12. Abdumuminova, R. N., Sh, B. R., & Bulyaev, Z. K. (2021). On The Importance Of The Human Body, Nitrates. The American Journal of Medical Sciences and Pharmaceutical Research, 3(04), 150-153.

13. Eshnazarovich TB, Norbuvaevna AR, Nurmuminovna GG. RESEARCH OF ECOLOGICAL AND HYGIENE ASPECTS OF AGROFAKTORS AFFECTING HUMAN HEALTH. Web of Scientist: International Scientific Research Journal. 2021;2(08):7-11

14. Mamurova G.N. Makhmudov K.Kh., Abdumuminova R.N., Mukhitdinov Sh.M. Study of environmental and hygienic aspects of soil pollution with heavy metals PROBLEMS OF BIOLOGY AND MEDICINE 2023/2 142 № 1

15. Тухтаров, Б. Э., Абдумуминова, Р. Н., & Гаппарова, Г. Н. (2021). ИНСОН САЛОМАТЛИГИГА ТАЪСИР ЭТУВЧИ АГРОФАКТОРЛАРНИНГ ЭКОЛОГО-ГИГИЕНИК ЖИҲАТЛАРИНИ ТАДҚИҚ ЭТИШ. *Scientific progress*, *2*(4), 80-86.

16. Тухтаров, Б., Абдумуминова, Р., Наимова, З., Хакимова, Х., & Каримов, А. (2024). Эколого-гигиеническая оценка загрязнения почв тяжелыми металлами и разработка мероприятий по его улучшению. *Каталог монографий*, *1*(1), 2–110. извлечено от https://inlibrary.uz/index.php/monographs/article/view/27813

17. Abdumuminova R.N., Tursunqulova S.T., & O'tayev B.J. (2024). SHAFTOLINING DORIVOR XUSUSIYATALARINI TADQIQ ETISH. https://doi.org/10.5281/zenodo.10500696

18. Abdumuminova R.N., & Annaqulov S. A. Xasanova G. A. (2024). BOLALAR SALOMATLIK HOLATIGA MAKTAB JIHOZLARNING TAЪSIRINI GIGIYENIK BAHOLASH. https://doi.org/10.5281/zenodo.10500703

19. R.N. Abdumo'minova, G. A.Vafaxonova, & Y. M.Shakarboyeva. (2024). SHARQIY ZIRABULOQ AHOLISI HUDUDLARIDAGI OCHIQ SUV HAVZALARINING SANITAR-GELMINTOLOGIK HOLATI. https://doi.org/10.5281/zenodo.10500719

20. Abdumuminova R.N., Ismoilov Zoxid Yo'ldashevich Isayev G'ulom Bobonazarovich, & Jalolova Shoxida. (2024). ONTOGENESIS. DEVELOPMENT OF SKULL BONES. *UNIVERSAL JOURNAL OF MEDICAL AND NATURAL SCIENCES*, *2*(9), 81–86. Retrieved from https://humoscience.com/index.php/mc/article/view/2593

21. Abdumuminova Ra'no Narbuvayevna, Mukhitdinov Shavkat Mukhamedjanovich, & Kholyarova Gulmira Rabbimovna. (2024). INVESTIGATION OF THE MEDICINAL PROPERTIES OF PEACH. In

International Multidisciplinary Research in Academic Science (IMRAS) (Vol. 7, Number 02, pp. 86–189). Zenodo. https://doi.org/10.5281/zenodo.10728635

22. Абдумуминова Р.Н., Махмудов К.Х., & Хожиева Л.Х. (2024). ПРЕДОТВРАТИТЬ РАЗВИТИЕ МЫШЕЧНЫХ НАСЛЕДСТВЕННЫХ ЗАБОЛЕВАНИЙ. *PEDAGOGS*, *64*(1), 33–38. Retrieved from https://pedagogs.uz/index.php/ped/article/view/1776

23. Abdumuminova Ra'no Narbuvayevna, Maxmudov Kamaliddin Xamidovich, & Xojiyeva Laylo Xazratovna. (2024). ONTOGENESIS. HEREDITARY DISEASES IN CHILD DEVELOPMENT. *PEDAGOGS*, *64*(1), 39–42. Retrieved from https://pedagogs.uz/index.php/ped/article/view/1777

24. Абдумуминова Р.Н., Махмудов К.Х., & Хожиева Л.Х. (2024). ОПРЕДЕЛЕНИЕ АСКОРБИНОВОЙ КИСЛОТЫ В ЛИСТЬЯХ ПЕРСИКА. *PEDAGOGS*, *64*(1), 43–46. Retrieved from https://pedagogs.uz/index.php/ped/article/view/1778

25. Абдумуминова Р.Н., Махмудов К.Х., & Хожиева Л.Х. (2024). ИЗУЧЕНИЕ ЛЕЧЕБНЫХ СВОЙСТВ ПЕРСИКА. *PEDAGOGS*, *64*(1), 47–50. Retrieved from https://pedagogs.uz/index.php/ped/article/view/1779