

FORMATION OF THE QUALITY OF FUNCTIONAL FOOD PRODUCTS

M.Z. Ashurova M.K.Kuzieva*

*Researcher,

Bukhara Engineering Technological Institute,

UZBEKISTAN

Email id: qaxa8004@mail.ru

DOI: 10.5958/2249-7137.2022.00797.2

ABSTRACT

From pumpkin seeds it is possible to obtain a unique prescription component for flour confectionery - powder. Pumpkin seed powder has a diverse chemical composition of biologically active components, which proves its effectiveness as a functional food raw material. The article discusses the composition of pumpkin seed powder and the possibility of using it as a raw material for the production of flour culinary and confectionery products.

KEYWORDS: *Pumpkin Seed Powder; Rational Nutrition; Functional Food Product; Sand Semi-Finished Product, Biscuit Semi-Finished Product.*

BIBLIOGRAPHY

1. GOST 8756.10-70 Fruit and vegetable processing products. Method for determination of pulp content. - Input. 01/01/1970. - M.: Publishing house of standards, 1970 - 11 p.
2. GOST 8756.22-80 processed products of fruits and vegetables. Method for the determination of carotene. - Input. 01/01/1980. - M.: Publishing house of standards, 1990 - 18 p.
3. GOST 24556-89 processed products of fruits and vegetables. Methods for determining vitamin C. Interstate standard. Introduction 01/01/91. M.: IPK Publishing house of standards, 2003. - 10 p.
4. Tretyakov N. N., Koshkin E. I., Mokrushina N. M. Physiology and biochemistry of agricultural plants / ed. N. N. Tretyakova. M.: Kolos, 2008
5. Shatnyuk L. H., Nagoytseva Yu. A. New types of flour confectionery for dietary purposes. M.: Agro NIITEI pishcheprom, 1991. Issue. 5.
6. Burns E. E., Talley L. J., Brummett B. J. Sunflower utilization in human foods // Cer. sci. today. 1972 Vol. 17, no. 9. P. 289-298.
7. Determination of caffeic and chlorogenic acids and their derivatives in different sunflower seeds / M. M. Pedrosa, M. Muzquiz, C. Garcia-Vallejo, C. Burbano, C. Cuadrado, G. Ayet, L. M. Robredo // J Sci Food Agric. 2000 No. 80. R. 459-464.
8. Optimization of the Extraction of Total Phenolic Compounds from Sunflower Meal and Evaluation of the Bioactivities of Chosen Extracts / F. S. Taha, G. F. Mohamed, S. H. Mohamed, S. S. Mohamed, M. M. Kamil // American Journal of Food Technology. 2011. No. 6. R. 1002-1020.

9. Rustan A. C., Drewon Ch. A. Fatty Acids: Structures and Properties // Encyclopedia of life sciences. 2005. Sept. P. 1-7.
 10. Schmidt S., Pokorny J. Potential application of oilseeds as a source of antioxidants for food lipids - a review // Czech J Food Sci. 2005 No. 23. R. 93-102.
 11. K.S.Rakhmonov. Influence of leavens of spontaneous fermentation and phytoadditives on the provision of microbiological safety of bread // T. I. Atamuratova, N. R. Djuraeva, I. B. Isabaev, L. N. Haydar-Zade//Journal of Critical Reviews //2020, Vol.7, Issue 5, pp. 850-860.
 12. S.K. Jabborova.Application of products of processing mulberries and roots of sugar beet in the production of cupcakes // I.B.Isabaev., N.R. Djuraeva., M.T. Kurbanov.,I.N. Khaydar-Zade., K.S. Rakhmonov //Journal of Critical Reviews //2020, Vol.5, Issue 5, pp. 277-286.
 13. K.S.Rakhmonov. Application of phito supplements from medicinal vegetable raw materials in the production of drugs // T. I. Atamuratova., M.E. Mukhamedova., N.K.Madjidova., I.Sh. Sadikov //Journal of Critical Reviews //2020, Vol.7, Issue 12, pp. 934-941.
 14. Djurayeva N, Mixtures of Vegetable Fat as a Potential Raw Material for Bakery// Barakayev N, RakhmonovK,Atamuratova T, Mukhamedova M, MuzaffarovaKh. // International Journal of Current Research and Review// october 2020, Vol.12, Issue 19, pp. 140-148. DOI: <http://dx.doi.org/10.31782/IJCRR.2020.12192>
 15. Djurayeva N, Plant-fat mixtures as a potential raw material for bakery production// Rakhmonov K, Barakayev N, Atamuratova T, Mukhamedova M, MuzaffarovaKh. // Plant Cell Biotechnology and Molecular Biology 2020 21(45-46), pp. 29-42
 16. Ravshanov S.S, The impact of ultrasonic activated water on hydrothermal processing of wheat grains grown in dry climate conditions // Rakhmonov K.S., Amanov B.N. // Plant Cell Biotechnology and Molecular Biology 2020 21(45-46), pp. 29-42
 17. Kuliev N.SH, Udk 664.8 baking properties and quality expertise wheat flour// Rakhmonov K.S. // European Journal of Molecular & Clinical Medicine, 2020, Volume 7, Issue 2, Pages 6333-6340
 18. Ravshanov S.S, The Effect Of Drinking And Activated Water On Field Scales Of Wheat Grains Grown In Arid Climatic Conditions// Rakhmonov K.S. Ergasheva H.B., Yuldasheva Sh. J.// European Journal of Molecular & Clinical Medicine, 2020, Volume 7, Issue 3, Pages 3065-3070.
 19. Rakhmonov K.S., Confectionery Products for Therapeutic and Preventive Purpose with Medicinal Herbs Uzbekistan// L.N. Khaydar-Zade., N.SH. Kuliev, G.H.Sulaymonova // Annals of the Romanian Society for Cell Biology, Vol. 25, Issue 2, 2021, Pages. 4126 – 4140.
 20. Ravshanov S.S., Influence of the Use of Activated Water during Hydrothermal Treatment on the Quality of Bread// Rakhmonov K.S., Radjabova V.E., Pardayev Z.T. // Annals of the Romanian Society for Cell Biology, Vol. 25, Issue 2, 2021, Pages. 4091 – 4102
 21. Barakaev, N., Justification of the parameters of parts of a walnut cracking machine// Mirzaev, O., Toirov, B., Alimov, A./ Journal of Physics: Conference Series, 2021, 1889(2), 022061.
-

- 22.** Azim Oltiev., The role of catalysts in fat transesterification technology// MatlubaKamalova., KakhramonRakhmonov., OrifjonMamatqulov// IOP Conf. Series: Earth and Environmental Science 848(2021) 012220
- 23.** Rakhmonov KS, Spontaneous fermentation starter cultures - an effective means of preventing the potato disease of bread // Isabaev IB. // Journal "Storage and processing of agricultural raw materials" . - M., 2011.- No. 12.- P.23-25.
- 24.** Rakhmonov KS, Influence of the substrate of the nutrient medium on the composition of the populations of microorganisms in the starter cultures of spontaneous fermentation // Isabaev IB, Akhmedova ZR // Journal "Storage and processing of agricultural raw materials". M, 2012 ..- No. 9.- P.40-43
- 25.** Rakhmonov KS, Analysis of typical sources of microbial contamination of bread // Buxorodavlatuniversitetiilmiyaxboroti. // 2014.- No. 3.- P.37-43.
- 26.** Rakhmonov K.S. Potato Bread Disease and a Method for Its Prevention // T.I. Atamuratova // Russian Bakery Magazine. M, 2014.- No. 5.- P.37-38.
- 27.** Rakhmonov KS, Biotechnological aspects of ensuring the microbiological purity of bread // E. Muratov, T.I. Atamuratova // Kimyovakimyotexnologiyasi. 2015.- No. 2.- P.64-68.
- 28.** Rakhmonov K.S. Wheaten ferments spontaneous fermentation in biotechnological methods// Isabayev I.B. // Austrian Journal of Technical and Natural Sciences. 2016. - № 7-8. - P. 9-12.
- 29.** Rakhmonov KS, Methods for improving the composition of the nutrient medium of sourdough cultures for bakery products from wheat flour // T.I. Atamuratova. Isabaev I.B. // Bakery of Russia. 2016. –№2. - P.22-24.
- 30.** Rakhmonov KS, Optimization of the recipe composition of wheat breads using spontaneous fermentation starter cultures // Isabaev IB, U.M. Ibragimov, Molchanova E.N. // Bakery of Russia. 2018. –№3. - S. 33-37.
- 31.** I.B. Isabaev, The use of feed flour as a substrate for the nutrient medium of wheat starter cultures in the production of bread // T. I. Atamuratova., Rakhmonov K.S. // Buxorodavlatuniversitetiilmiyaxboroti.- 2018. No. 2.- P.24-30.
- 32.** Ravshanov S.S, Radjabova V.E, Rakhmonov K.S, Pardayev Z.T. Influence of the Use of Activated Water during Hydrothermal Treatment on the Quality of Bread // Journal Annals of the Romanian Society for Cell Biology - Romania, 2021. Vol. 25, №2 ISSN: 1583-6258, pp. 4091-4102.
- 33.** Ravshanov S.S, Rakhmonov K.S, Ergasheva H.B, YuldashevaSh.J. The Effect Of Drinking And Activated Water On Field Scales Of Wheat Grains Grown In Arid Climatic Conditions // European Journal of Molecular & Clinical Medicine. Volume 07. Issue 03. 2020. -pp 3065-3070.