IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 3, Issue 3, December 2023

Preparation and Evaluation of Graviola Leaf Cookies

Vinothkumar A¹ and Swetha E²

Student, Department of Food Processing Technology¹ Research scholar, Department of foods and Nutrition² PSG College of Arts and Science, Coimbatore, India

Abstract: Graviola leaves cookies is a medicinal food product. Graviola (Annona muricata) is a small deciduous tropical evergreen fruit tree, belonging to the annonaceae family. Graviola leaves cookies was made from wheat flour, milk, sugar, butter, and graviola leaf. Different variations of the product were tried with different proportion and quantity to make the cookies. The ratio of graviola leaves were changed from 5: 7: 10 while preparing the product. The chemical parameters, Nutritional – analysis, Shelf- life study and Sensory characteristics were investigated for the standard products. Based on nutritional analysis the product has all the essential macro nutrient and phytochemicals particularly high in iron and zinc. The prepared product has shelf life up to 10 days. The sample product has no difference in look and taste compared normal cookies. The cookies are well accepted among all age group. It can definitely be consumed instead of normal cookie with added health benefits.

Keywords: Graviola leaves, medicinal properties, cookies, phytochemicals

REFERENCES

- [1]. Dabels Nanyen, Igbabul Bibiana Dooshima, Amove Julius, Iorliam Benbella. Nutritional Composition, Physical and Sensory Properties of Cookies from Wheat, Acha and Mung Bean Composite Flours. International Journal of Nutrition and Food Sciences. Vol. 5, No. 6, 2016
- [2]. Rady, Islam et al. "Anticancer Properties of Graviola (Annona muricata): A Comprehensive Mechanistic Review." Oxidative medicine and cellular longevity vol. 2018 1826170. 30 Jul. 2018,
- [3]. Goon-Tae Kim, Nguyen Khoi Song Tran, Eun-Hye Choi, Yoo-Jeong Song, Jae-Hwi Song, Soon-Mi Shim, Tae-Sik Park, "Immunomodulatory Efficacy of Standardized Annona muricata (Graviola) Leaf Extract via Activation of Mitogen- Activated Protein Kinase Pathways in RAW 264.7 Macrophages", Evidence-Based Complementary and Alternative Medicine, vol. 2016, Article ID 2905127, 10 pages, 2016.
- [4]. Olas, Beata. "The Antioxidant Potential of Graviola and Its Potential Medicinal Application." Nutrients vol. 15,2 402. 12 Jan. 2023,
- [5]. Kim, Goon-Tae et al. "Immunomodulatory Efficacy of Standardized Annona muricata (Graviola) Leaf Extract via Activation of Mitogen-Activated Protein Kinase Pathways in RAW 264.7 Macrophages." Evidence-based complementary and alternative medicine: eCAM vol. 2016 (2016)
- [6]. Samuel Ayofemi Olalekan Adeyeye | Fatih Yildiz (2016) Assessment of quality and sensory properties of sorghum—wheat flour cookies, Cogent Food & Agriculture, 2:1.
- [7]. B.K. Mortensen, Butter and Other Milk Fat Products | Modified Butters, December 2011.
- [8]. John Wiley &Sons, Inc., Hobken, New Jersey "baking and pastry" 2016, 3rd edition.
- [9]. Burgess, Ken. "Milk and Dairy Products in Human Nutrition (2013), by E. Muehlhoff,
- [10]. A. Bennett and D. McMahon, Food and Agriculture Organisation of the United Nations (FAO), Rome. E ISBN: 978 92 5 107864 8 (PDF). Available on web site (publications-sales@fao.org)." International Journal of Dairy Technology 67 (2014): 303-304.
- [11]. Brodie, Researches regarding the Chemical Leavening Agents 'Role in Quality of Bakery products, 2006.

DOI: 10.48175/IJARSCT-14309



IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 3, Issue 3, December 2023

BIOGRAPHY

DOI: 10.48175/IJARSCT-14309



Myself Vinothkumar A, completed B.Sc Food Processing technology and Management at Hinduthan College of arts and science and now pursuing Masters in Food Technology Management at PSG College of Arts and Science. I'm interested in developing new foods. For contact: avinothkumar1234@gmail.com.

