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Comparative study of probiotic green and red cabbage juice – a nutraceutical approach

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ABSTRACT

The present study was conducted to compare the nutritional value of green cabbage juice with red cabbage juice. After fermentation, qualitative analysis of phytochemicals of fermented red cabbage juice and green cabbage juice, antioxidant potential, percentage of sugar, antagonistic activity, and shelf-life study were performed. After fermentation, qualitative analysis of phytochemicals of both the juices showed presence of various essential component and antimicrobial activity. Based on morphological and, biochemical characterization and on referring Bergey's manual of determinative

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bacteriology, isolates from fermented cabbage juice were identified as Lactobacillus spp. Fermented red cabbage juice had greater ability to survive under gastrointestinal conditions than fermented green cabbage juice.

REFERENCES

Abdullah, A. A. 2021. Antifungal Activity and Mechanism of Action of Different Parts of Myrtus communis growing in Saudi Arabia against Candida spp. Journal of Nanomaterials, P. 1-10.

Bergey, D.H. and Holt, J.G. 1994. Bergey's manual of determinative bacteriology. 9th Edition, Lippincott Williams and Wilkins, Baltimore.

Chauhan, E., Tiwari, A. and Singh, A. 2016. Phytochemical screening of red cabbage (Brassica oleracea) powder and juice - A comparative study. Journal of Medicinal Plants Studies, 4(5), 196-199.

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Eliza, Knez., Kornelia, Kadac-Czapska. and Małgorzata, Grembecka. 2023. Effect of Fermentation on the Nutritional Quality of the Selected Vegetables and Legumes and Their Health Effects. Life, 13 (655), 1-24.

Fan, X. Tao, X. Baiyi, L. Ruihai, L. 2020. Guidelines for antioxidant assays for food components. Food Frontiers.1, 60–69.

Gaanappriya, M. Guhankumar, P. Kiruththica, V. Santhiya, N. and Anita, S. 2013. Probiotication of fruit juices by Lactobacillus acidophilus. International Journal of Advanced Biotechnology and Research, 4, 935-940.

Haq, N. M. Aslam S. and Saima, M. 2018. Phytochemical composition and Antioxidant potential of Brassica, Brassica germplasm characterization.Breeding and Utilization, 8-26.

Iqra, Y. Muhammad, S. Wahab, Ali K. Adnan, K. Muhammad Farhan, J. Rabia, Iqbal Saima T. Saima, N. Atif, L. Tariq Mehmood, Samreen A. and Saira, T. 2020. In Vitro Probiotic Potential and Safety Evaluation (Hemolytic, Cytotoxic Activity) of Bifidobacterium Strains Isolated from Raw Camel Milk. Microorganisms, 354, 1-21.

Mohammad, A. Hossain. Khulood, A. S. A. Zawan, H. A. Afaf, M. W. and Qasim, Al- Riyami. 2013. Study of total phenol, flavonoids contents and phytochemical screening of various leaves crude extracts of locally grown Thymus vulgaris. Asian Pacific Journal of Tropical Biomedicine, 3(9), 705-710.

Rafiquzzaman, S. M. In-Soo, Kong. and Jin-Man, Kim.2015. Enhancement of Antioxidant Activity. Total Phenolic and Flavonoid

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Ambawade et al. (Probiotic green and red cabbage juice)

Content of Saccharina japonica by Submerged Fermentation with Aspergillus oryzae. KSBB Journal, 30, 27-32.

Swain, M. R. Anandharaj, M. Ray, R. C and Rani, R. P. 2014. Fermented fruits and vegetables of Asia: a potential source of probiotics.

Biotechnology Research International, 19.

Daoud, A. Malika, D. Bakari, S. Hfaiedh, N. Mnafgui, K. and Kadri, A. 2015. Assessment of polyphenol composition, antioxidant and

antimicrobial properties of various extracts of date palm pollen (DPP) from two tunisian cultivars. Arabain Journal of Chemistry, 12(8), 3075-3086.

Lucho-Constantino G. G., Zaragoza-Martínez F., Ponce-Noyola T., et al. 2017. Antioxidant responses under jasmonic acid elicitation comprise enhanced production of flavonoids and anthocyanins in Jatropha curcas leaves. Acta Physiologiae Plantarum, 39(8),1–10.

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