

## Designing of Oat Drink with Phytonutrients Assigned for Pro-Health Oriented Consumers

**Authors :** Gramza-Michalowska Anna, Skrety Joanna, Anna Zywicka, Kobus-Cisowska Joanna, Kmiecik Dominik, Korczak Jozef

**Abstract :** Background: Modern consumer highly appreciates the positive influence of consumed products on well-being and overall health. High acceptance of new food is a result of intensified research showing many proofs confirming that food offers significant prophylactic and therapeutic potential, next to its basic nutritional function. Objective: Proposition of the technology of unsweetened oat drinks enriched with plant extracts for pro-health oriented individuals. We investigated the effects of selected plant extracts addition on antioxidative capacity and consumer's acceptance of drinks as representative of all day diet product. Methods: The analysis of the basic composition and antioxidant properties of the drinking product was conducted. Basic composition included protein, lipids and fiber content. Antioxidant capacity of drink was evaluated with use radical scavenging methods (DPPH, ABTS), ORAC value and FRAP. Proposed drink as new product was also characterized with sensory analysis, which included color, aroma, taste, consistency and overall acceptance. Results: Results showed that addition of plant extracts into a oat drink allowed to enhance its antioxidant potential and influenced significantly its sensory values. The preferred composition and properties of designed beverage permit claim that it can have a positive impact on the health of the consumers. Conclusion: Designed oat drink would be an answer for pro-healthy life style of the consumers. Results showed that product with plant extracts addition would be accepted by the consumers and because of its antioxidative potential could be an important factor in prevention of free radicals influence on human organism.

**Keywords :** phytonutrients, pro-health, well-being, antioxidant potential, sensory value

**Conference Title :** ICFAPE 2014 : International Conference on Food and Agricultural Process Engineering

**Conference Location :** Melbourne, Australia

**Conference Dates :** December 11-12, 2014