

Application of High-Pressure Processing in Food Preservation: Impact on Microbial Safety and Nutritional Quality

Ravikiran Mahadasa¹', Janaki Rama Phanendra Kumar Ande², Aleena Varghese³, Md Abul Khair⁴

ABSTRACT

High-pressure processing (HPP) has attracted much interest in food preservation because it can improve microbiological safety and maintain nutritional value. This study aims to investigate how HPP affects consumer acceptability, nutritional quality, microbial safety, and market implications. A thorough analysis of the research and literature was done to clarify HPP technology's advantages, opportunities, difficulties, and effectiveness. The results show that HPP successfully regulates bacteria populations while maintaining the food items' sensory qualities and nutritional integrity. On the other hand, issues, including the expense of equipment, adherence to regulations, customer knowledge, and environmental concerns, need to be addressed. To encourage the ethical and efficient use of HPP technology, policy implications include the need for consumer education, sustainable practices, regulatory harmonization, and research funding. HPP has a great deal of promise to improve food sustainability, quality, and safety. Reducing adoption hurdles and encouraging ethical use of HPP technology are crucial to achieving its goals and guaranteeing a safer, healthier food supply for people worldwide.

Keywords: Food preservation, Microbial safety, Nutritional quality, High-pressure Technology, Preservation Techniques, Pressure Treatment Effects

Conflict of Interest: Authors declare that there are no conflicts of interest.

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INTRODUCTION

Finding strategies that balance microbiological safety and mutritional quality in food preservation today is crucial. Innovative preservation technologies are essential as the global population grows and consumers' desire minimally processed, safe, and nutritious food. High-pressure processing (HPP) offers a paradigm change from conventional heat treatments by controlling microbes while preserving food nutrients. High-pressure processing involves elevating food products to 100 to 1000 megapascals (MPa) for a set time at a specified temperature. HPP deactivates germs at ambient or refrigeration temperatures, unlike pasteurization and sterilizing. This non-thermal method reduces heat's negative impacts on food taste, nutrition, and quality (Surarapu et al., 2018).

High pressure inactivates microbes in multiple ways. It damages microbial cell membranes, denaturates proteins, and impairs critical biological processes. HPP's broad-spectrum efficacy inactivates vegetative bacteria, spores, and

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