



Advances in microbial food safety: 17. New research on modified-atmosphere packaging and pathogen behaviour (Woodhead Publishing Series in Food Science, Technology and Nutrition)

A. Vermeulen, P. Ragaert, A. Rajkovic, S. Samapundo, F. Lopez-Galvez, F. Devlieghere

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Consumers are switching to fresh, minimally processed foods, creating challenges in terms of ensuring food safety. The shift in food production from local to global has led to a complex logistics chain. These trends and challenges have lead to the development of packaging materials with better barrier properties, and active and intelligent packaging. A recent trend is the increasing sustainability of food packaging. Modified atmosphere or vacuum packaging gives a longer shelf life by reducing the growth of spoilage microorganisms and/or oxidation processes. This chapter focuses on modified-atmosphere packaging (MAP). The effects of high and low O₂, elevated CO₂ concentrations and equilibrium modified-atmosphere packaging (EMAP) are considered. The influence on food infectants, toxin-producing bacteria and mycotoxins is discussed. Recent studies on MAP have had contradictory results, mostly owing to differences in experimental design and materials.

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