Title	The effect of modified atmosphere packaging on the quality of Honeoye and Korona
	strawberries
Author	Tim Nielsen and Anders Leufvén
Citation	Food Chemistry, Volume 107, Issue 3, 1 April 2008, Pages 1053-1063
Keywords	Strawberry; Packaging; Atmosphere; Aroma; Quality

Abstract

Strawberries (cultivars Honeoye and Korona) were stored in perforated polypropylene bags at 5 °C for 10 days. Unpackaged strawberries were used as a reference. Several quality parameters were monitored during the storage period. The packaged strawberries retained their weight throughout the experiment as opposed to the unpackaged samples which lost 1.5% of their weight per day because of dehydration. The aroma profile of Honeoye strawberries was not affected by storage in modified atmospheres. In Korona fruits, on the other hand, there was a considerable increase in ethyl acetate levels, indicating unwanted metabolism caused by the altered gas composition. The production of potential off-odours was, however, not possible to distinguish in the sensory analyses of the strawberries. The results indicated that storage in a modified atmosphere (11–14% O_2 and 9–12% CO_2) can be used to maintain the quality of Honeoye and Korona strawberries for a longer time, than if kept in air in open containers.