Title	Impact of UV-C light on safety and quality of fresh-cut melon
Author	Lara Manzocco, Sara Da Pieve and Michela Maifreni
Citation	Innovative Food Science & Emerging Technologies, Volume 12, Issue 1, January 2011,
	Pages 13-17
Keywords	Ultraviolet light; Decontamination; Flavour; Shelf life; Fresh-cut fruit

Abstract

The effectiveness of UV-C light exposure on safety and quality of fresh-cut fruit was investigated with reference to melon cubes. UV-C light was applied during cutting operations and before packaging. Melon cubes were then analysed for microbial counts, colour, firmness, juice leakage, sensory properties and preference during storage at 6 °C for up to 14 days. Fruit exposure to UV-C light leaded to 2 log reductions for both total viable count and *Enterobacteriaceae*, whose counts remained 2 log units lower than that of the untreated sample during storage. No significant effect of UV-C light decreased melon leakage, probably due to the formation of a thin dried film on the product surface. UV-C treated samples were also associated to a better flavour which made them significantly preferred to the untreated ones. UV-C light treatment was demonstrated to be a high potential novel technology for surface decontamination of ready-to-eat food surface.