

Title Quality of fresh-cut ripe papaya treated with 1-methylcyclopropene
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Abstract

Quality of fresh-cut papaya treated with 500 nl L⁻¹ 1-methylcyclopropane (1-MCP) before (whole fruit) and/or after cutting (cubes) were determined. After treatment, cubes were stored at 10°C for 6 d. Surface color, weight loss, firmness, water soaking, ethylene production and respiration rates were examined every 2 d in storage. 1-MCP applied before cutting or both before and after cutting reduced ethylene production but increased respiration rates. The application of 1-MCP after cutting or both before and after cutting delayed softening, water soaking and reduced weight loss in fresh-cut papaya. The results suggest that 1-MCP treatment, when applied before and after cutting, delayed physical deterioration of fresh-cut papaya at 10°C compared with controls.