

Title Changes in the cell wall compounds of pineapple treated with CaCl₂ solution at different temperatures.
Authors de Carvalho, V. D.
Citation Ciencia e Agrotecnologia Vol: 22 (1998); 359-365

Abstract

Pineapple cv. Smooth Cayenne fruits were immersed in CaCl₂ solution at 0, 1, 2 and 3% at two different immersion temperatures (room temperature or 42 deg C) then stored for 21 days at 9 deg C and 90% RH followed by 10 days at room temperature. The calcium was efficiently absorbed by the pineapple cell walls, helping to maintain the levels of pectic substances. The greatest absorption occurred in the fruits immersed in CaCl₂ at 42 deg C. However, calcium treatments had no significant effects on cellulose, hemicellulose, proteins and the degree of esterification of the pectic substances of the cell wall.