

Title Correlation of internal gasses, ethanol content and alcohol dehydrogenase activity during storage of tangerine fruit coated with commercial coatings

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Abstract

Nine commercial coatings (CITRASHINE, SEALKOTE, FOMESA, ROSY PLUS, CITROSOL AK, SUPERSHINE-C, ZIVDAR, PERFECT SHINE, and unknown WAX) were coated on tangerine fruits cv. Sai Nam Puang and then stored at ambient temperature ($23\pm 3^{\circ}\text{C}$) and $56\pm 5\%$ relative humidity for 7 days. Coated tangerine fruit with ZIVDAR had relatively high internal O_2 and low internal CO_2 and ethanol content. High ethanol content has been correlated with low internal O_2 and high internal CO_2 . Coated tangerine fruit with ZIVDAR had the highest alcohol dehydrogenase (ADH) activity. Coated fruit with commercial coatings had gloss that relatively stable during storage. Coated fruit with CITRASHINE and SEALKOTE has the highest gloss.