

Title Study on the effect of wax application on gedong gincu mango (*Mangifera indica* L.) at low storage temperature in order to extend its shelf life

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Abstract

Gedong Gincu is a promising mango variety to the modern and international market so the efforts to maintain its quality become important factor. The use of wax as a coating in combination with storage at low temperature was predicted to be the solution to extend its shelf life and maintain its quality.

This research objective was to study the effect of wax application using different concentration and types of waxes during low temperature of storage. Method of this research was experimental laboratory with randomized block design consisted of 2 treatments and 3 replications. The first treatment was types of waxes, i.e.: bees wax 6%, carnauba wax 6%, and paraffin wax 6%. The second treatment was temperature storage at 5°C, 10°C and 20°C. Observed characteristics were weight loss, hardness texture of the fruit, the rate of respiration, content of vitamin C and the value of total dissolved solids.

The results indicated that combination of paraffin 6% and 5°C storage temperature was able to provide the best effect in maintaining the Gedong Gincu mango stored for 28 days.