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EFFECT OF POSTHARVEST DIPPING USING SODIUM HYPOCHLORITE SOLUTION ON THE SHELF LIFE AND POSTHARVEST QUALITY OF CUCUMBER (Cucumis sativus L.) FRUITS

Nor Ashikin Binti Samin
This project is submitted in partial fulfillment of the requirement of the degree of Bachelor of Science in Agrotechnology (Postharvest Technology)

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ABSTRACT

An experiment was conducted using sodium hypochlorite solution to determine the effect of postharvest dipping on the shelf life and postharvest quality of cucumber (Cucumis sativus L.) fruits. The cucumber fruits were dipped in 1%, 3% and 5% of sodium hypochlorite solution concentration for 5 min with one control (untreated fruit). Each treatment had 3 replicates of 16 fruit per replicate. Observation was done after 3 day interval on color, soluble solid concentration, microbial growth and weight loss of fruit samples. At the end of the experiment, 5% NaOCl solution was proved to be effective on microbial growth. The results of the experiment shown that there were also significant difference of weight loss and soluble solid concentration (SSC) of cucumbers treatment with 5% sodium hypochlorite solution compared to the control. While the color of cucumber fruits shown that there have no significant differences for all treatments.