

Abstract

Study on extension of storage life of longkong (*Aglaia dookkoo* Griff.) by packaging materials, O₂:CO₂ proportions in combination with ethylene absorbent. This study was divided into 2 experiments. First experiment, study on influence of ethylene absorbent (EA), and O₂:CO₂ flow rates on quality and storage life of longkong (*Aglaia dookkoo* Griff.). The results showed that longkong stored in ethylene absorbent 5 percent are the best performance. Percent fresh weight loss increased and TSS decreased as storage time increased. TA slightly changed through experiment. All of treatments had no difference of color changing of rind and pulp. The longkong stored in ethylene absorbent 0 percent with flow rates of O₂:CO₂ 5:7 PSI, ethylene absorbent 5 percent with flow rates of O₂:CO₂ 0:0, 3:5, 5:7 and 7:9 PSI, ethylene absorbent 7 percent with flow rates of O₂:CO₂ 0:0, 5:7 PSI, ethylene absorbent 9 percent with flow rates of O₂:CO₂ 0:0, 5:7 and 7:9 PSI had longest mean of shelf-life of 12 days.

Second experiment, study on influence of packaging materials, and O₂:CO₂ flow rates on quality and storage life of longkong (*Aglaia dookkoo* Griff.). The results showed that the longkong stored in PE bag with flow rates of O₂:CO₂ 2:5, 4:10, 6:15 and 8:20 PSI had the longest mean of shelf-life of 15 days and well on appearance as 1 day fresh harvested. The longkong had fresh weight loss increased and TSS decreased as storage time increased. TA slightly changed during the conducting of experiment.