Enhancing shelf life and antioxidant capacity in nectarine fruit with threonine under low temperature

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خلاصه مقاله:
Chilling injury limits the storage life of nectarine fruit at low temperatures. Therefore, increasing the resistance to chilling injury will provide long-term maintenance of nectarine fruit at low temperatures. In this research, the effect of threonine at $\mathrm{r} \omega \cdot$ and $\omega \cdots \mu \mathrm{M}$ on chilling injury and fruit quality of nectarine during storage at $1{ }^{\circ} \mathrm{C}$ with $9 \Delta \%$ relative humidity for $\mu \cdot$ days was studied. The measured traits included chilling injury, hydrogen peroxide, lipid peroxidation, TSS, organic acids, antioxidant capacity and antioxidant enzyme activity. The results showed that chilling injury decreased hydrogen peroxide production and lipid peroxidation in treated fruits with threonine compared to control during storage. The amount of organic acids, TSS, antioxidant capacity and activity of antioxidant enzymes in treated fruits increased until the end of storage. In general, the $\Delta \cdots \mu \mathrm{M}$ threonine had the most .significant effect on maintaining the quality of nectarine fruits during storage

كلمات كليدى:
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