

عنوان مقاله:

Enhancing the shelf life of tomato fruits using plant material during storage

محل انتشار:

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خلاصه مقاله:

Purpose: Postharvest losses of fruits and vegetables are major problem for countries that agriculture is one of the source economy and that losses in tomato have reported from 20 to 50%. It is one of the very perishable fruit and it changes continuously after harvesting. The aim was to evaluate the effect of guava (*Psidium guajava*) and physic nut (*Jatropha curcas*) leaf extract on fresh ripe tomato fruits. Research method: Two tomato varieties obtained (UTC and Tandilo) from Gombe Main Market and were then treated with aqueous and ethanolic extract of *Psidium guajava* and *Jatropha curcas* leaves to extend their shelf life and maintain the quality of tomato fruits during storage. The experiment was laid out using completely randomized block design, (CRBD). Number of days to deterioration was recorded on visual eating quality. The recorded data were analyzed using analysis of variance. Findings: Ethanolic extracts of *P. guajava* and *J. curcas* was highly effective on UTC variety. The postharvest decay that was the main quality factor in this experiment significantly reduced in Tandilo and UTC tomato fruits after using 2.5g/1000ml ethanolic *J. curcas* leaves extract by 24 and 25 days respectively; and 22 and 23 days after using 2.5g/1000ml ethanolic *P. guajava* leaves extract. Limitations: No limitations were founded. Originality/Value: These findings indicate that application of leaves extracts proved to be effective in extending the shelf life of test tomato fruits

کلمات کلیدی:

Deterioration, Plant extracts, Postharvest, Shelf life, Tomato

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