

Title *Trichoderma viride* fermentation broth treated prior to storage alleviates *Colletotrichum gloeosporioides* Penz and Senium in mango fruit

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Abstract

Mango fruit (*Mangifera indica* L.cv.Zihua) were treated with *Trichoderma viride* fermentation broth to study the inhibition of postharvest anthracnose disease (*Colletotrichum gloeosporioides* Penz) and storage quality of the fruit. The result showed that under the condition of 33°C, RH 70%, *Trichoderma viride* fermentation broth could inhibit the occurrence of *C. gloeosporioides*, the morbidity of controlled group which was stored at the 3rd, 5th and 7th day was 29%, 59%, and 75%, respectively; the value of group which soaked with *Trichoderma viride* fermentation broth were 16%, 33%, 57%; the group which were vaccinated with *C. gloeosporioides* were 48%, 68%, 87%, While the morbidity of the group vaccinated with *C. gloeosporioides* firstly and then treated with *Trichoderma viride* fermentation broth were 20%, 32% and 88%, respectively. Further, the value of TSS, TA, MDA, POD, PPO, total phenol and colour index were all better than the other groups. This suggested that fermentation broth of *Trichoderma viride* has better antimicrobial activity on *C. gloeosporioides* of Mango after postharvest and obviously effective for fruit preservation.