Title Combination of cassia oil with magnesium sulphate for control of postharvest storage rots of

cherry tomatoes

Author Wu Feng, Xiaodong Zheng, Jiaping Chen and Yang yang

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Abstract

The inhibitory effects of cassia oil alone or in combination with magnesium sulphate (MgSO₄) against *Alternaria alternata in vitro* and *in vivo* were tested. Magnesium sulphate(0.25–3%) enhanced the inhibitory effects of 200 µl 1⁻¹ cassia oil *in vitro*. Cassia oil at 500 µl 1⁻¹, in combination with 0.25% MgSO₄, showed a significant inhibition effect on *A. alternata* of cherry tomatoes stored at 20 °C for 3 days. The experiments on reducing natural decay development of cherry tomatoes gave similar results. None of the treatments affected quality parameters of cherry tomatoes. Thus combining cassia oil with MgSO₄ provided a more effective control of postharvest disease than using cassia oil or the other chemicals alone.