

عنوان مقاله:

Effects of Two Systemic Insecticides on Damping-off Pathogens of Cotton

محل انتشار:

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خلاصه مقاله:

In vitro and greenhouse studies were conducted to investigate the possibility of an interaction between two systemic insecticides of: Thiodicarb (Larvin DF ۸۰) and Imidacloprid (Guacho SW ۷۰), and seedling disease organisms of: *Rhizoctonia solani*, *Fusarium moniliforme* and *Pythium ultimum*. When in vitro concentrations of Imidacloprid and Thiodicarb were applied, a fungistatic activity occurred. These insecticides inhibited mycelial growth of *R. solani* and *F. moniliforme* by ۶.۶-۱۴.۱ % and ۱۵.۲-۷۰.۸ %, respectively. *F. moniliforme* was more seriously affected by the insecticides while no significant effect was observed on *P. ultimum*. The pot experiments confirmed in vitro results so that, Thiodicarb provided excellent protection against pre- and post-emergence damping-off of the plant by ۵۴.۲% and ۹۰.۶ %, respectively.

کلمات کلیدی:

Antifungal activity, *Fusarium moniliforme*, Imidacloprid, *Pythium ultimum*, *Rhizoctonia solani*, Thiodicarb

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