

EFFECT OF *PAECILOMYCES LILACINUS* AND FURADAN ON PLANT GROWTH, ROOT NODULATION AND REPRODUCTION OF *MELOIDOGYNE INCOGNITA* IN TOMATO

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Abstract

Twenty five day old culture of *Paecilomyces lilacinus* grown on rice grains was applied alone and in combination with furadan @1.5, 2.0 and 2.5 kg a.i./ha. *P. lilacinus* @ 4g/plot showed an increase in shoot and root growth as compared to plants treated with furadan alone and untreated inoculated plants. *P. lilacinus* used @ 4g per plant along with furadan at 2.5g a.i./ha significantly increased plant growth than untreated inoculated tomato plants and also reduced number of galls per plant (15.00), egg-masses per root (13.69), eggs per egg-mass (32.67). The number of larvae per 200g soil (46.00) and females per 5g root (11.00) were significantly reduced. The reduction rate of the nematodes was also inhibited at 4g *P. lilacinus* and 2.5 kg a.i./ha. of furadan as compared to other treatments.