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Bioefficacy of different bioagents against root-knot nematode, *Meloidogyne incognita* infesting bottle gourd under laboratory conditions

■ PRADNYA B. MANE* AND N. L. MHASE

Division of Entomology, Mahatma Phule Krishi Vidyapeeth, Rahuri, AHMEDNAGAR (M.S.) INDIA

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***Corresponding author:**

ABSTRACT

The bioefficacy of different bioagents *viz.*, *Paecilomyces lilacinus* ($2x10^6$ cfu/g), *Pseudomonas fluorescens* ($1x10^9$ cfu/g), *Trichoderma viride* ($2x10^6$ cfu/g), Phule *Trichoderma* plus ($2x10^6$ cfu/g) and *Pochonia chlamydosporium* ($2x10^6$ cfu/g) against second stage juveniles of root-knot nematode infesting bottle gourd crop was studied under laboratory conditions. In this bioassay *Paecilomyces lilacinus* fungus caused higher rate of juvenile mortality at 1.00 per cent concentration was found to be promising in laboratory bioassay studies and recorded 80.00 per cent mortality of second stage juveniles of root-knot nematode. This was followed by 76.67 per cent mortality of second stage juveniles of root-knot nematode by *Pseudomonas fluorescens* at 1.00 per cent concentration after 72 hrs treatment of respective bioagents. The fungi Phule *Trichoderma* plus, *Trichoderma viride* recorded 70.00, 66.67 per cent juvenile mortality, while as in case of fungi *Pochonia chlamydosporium* 53.33 per cent juvenile mortality was observed after 72 hrs treatment of respective bioagents at 1.00 per cent concentrations.

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