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RESEARCH PAPER

Study the bioefficacy of aqueous formulation of various antagonists against *M. incognita* in tomato (*Solanum lycopersicum* L.) under field condition

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ABSTRACT

Field trials were conducted to assess the efficacy of biocontrol agents *viz*., *Pseudomonas* spp. and *Bacillus* spp. against root knot nematode, *Meloidogyne incognita* in tomato (PKM1variety). The liquid formulations of six native bacterial isolates delivered through seedlings root dip treatment @ 200 ml/ ha of seedling followed by soil application through drip irrigation @ 500 ml/ha along with two standard check. The results indicated that the most of the tested treatments reduced root galls and increased tomato plant growth characters. *Pseudomonas fluorescens* (Pfpv1) was most effective treatment on both root and soil population achieving 67.17 and 59.80 per cent reduction, respectively followed by *Bacillus subtilis* (Bsvn11).

Key Words : Tomato, Root knot nematode, *Pseudomonas* spp., *Bacillus* spp.

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