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RESEARCH ARTICLE

Evaluation of oil formulations of *Nomuraea rileyi* (Farlow) Samson against *Spodoptera litura* under laboratory conditions

■ T. SHARMILA, K. MANJULA AND T. MURALI KRISHNA

SUMMARY

Three oil formulations of entomopathogenic fungus *Nomuraea rileyi* were evaluated for their efficacy along with crude formulation against third instar *Spodoptera litura* during 2011-2012 at the Department of Entomology, S.V. Agricultural College, Tirupati. Mean larval mortalities of 96.67, 93.33, 86.67 and 76.67 per cent, respectively were recorded with groundnut, sunflower, coconut oil based formulations and crude formulation of *N. rileyi* at highest concentration i.e., 1×10^8 spores ml^{-1} at 10 DAT. More than 70 per cent larval mortalities of *S. litura* were obtained with the concentrations above 1×10^6 spores per ml in case of groundnut oil and sunflower oil based formulations. The mortalities gradually reduced with concentration showing the least at 1×10^2 spores ml^{-1} . Incubation period, was in negative correlation with the concentration of *N. rileyi* in all the formulations. Pupal mortalities and malformed adults emergence showed positive association with concentration of *N. rileyi* against *S. litura* larvae.

Key Words : *N. rileyi*, Oil formulation, Lab evaluation, *S. litura*

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MEMBERS OF THE RESEARCH FORUM

Author to be contacted :

T. SHARMILA, Department of Entomology, S.V. Agricultural College (A.N.G.R.A.U.), TIRUPATI (A.P.) INDIA
Email: sharmila.telugu.47@gmail.com

Address of the Co-authors:

K. MANJULA AND T. MURALI KRISHNA, Department of Entomology, S.V. Agricultural College (A.N.G.R.A.U.), TIRUPATI (A.P.) INDIA