

Field evaluation of oil formulations of *Nomuraea rileyi* (Farlow) Samson against *Spodoptera litura* and *Helicoverpa armigera* in groundnut

■ T. SHARMILA* AND K. MANJULA

Department of Entomology, S.V. Agricultural College (ANGRAU), TIRUPATI (A.P.) INDIA

ARTICLE INFO

Received : 19.11.2014

Revised : 25.02.2015

Accepted : 12.03.2015

KEY WORDS :

Oil formulations, *Nomuraea rileyi*,
Spodoptera litura, *Helicoverpa*
armigera

ABSTRACT

Nomuraea rileyi (Farlow) Samson is a potential entomopathogenic fungus against lepidopteran pests. In groundnut crop ecosystem, along with three oil formulations (sunflower, coconut and groundnut), two Wettable powder (corn flour and talc) and one crude formulation were evaluated against *Spodoptera litura* and *Helicoverpa armigera* during 2011-2012 at dry land farm, S.V. Agricultural College, Tirupati. The results indicated that groundnut oil based formulation of *N. rileyi* recorded significantly higher reduction of both *S. litura* (82.46%) and *H. armigera* (74.58%) larval population. The groundnut oil based formulation also recorded significantly lower per cent leaf damage by both *S. litura* (14.27%) and *H. armigera* (13.27%). However sunflower oil and coconut oil formulations also proved better than WP and crude formulations. Crude formulation was also found to be effective when compared to WP formulations in reducing the larval population, in recording lower per cent leaves damaged at 15 days after treatment against both pests.

How to view point the article : Sharmila, T. and Manjula, K. (2015). Field evaluation of oil formulations of *Nomuraea rileyi* (Farlow) Samson against *Spodoptera litura* and *Helicoverpa armigera* in groundnut. *Internat. J. Plant Protec.*, **8**(1) : 142-147.

*Corresponding author:

Email: sharmila.telugu.47@gmail.com