

## NEMATICIDAL ACTIVITY OF LAC BASED CHEMICALS AGAINST ROOT-KNOT NEMATODE

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**ABSTRACT** : An experiment was conducted to assess the nematicidal effect (*in-vitro* and *in-vivo*) of two lac based chemicals (I&II) i.e. 9-hydroxy  $\Delta^2$ -nonenoic acid (HNA) and its methyl ester [chemical-II (MENA)] against root-knot nematode (*Meloidogyne incognita*). Data on per cent mortality of juvenile of *Meloidogyne incognita* revealed that nematicidal activity of both the chemicals was dose and exposure time dependent. Chemical (II) methyl ester (MENA) showed mortality of juveniles more than 50% at 62.5ppm dose level after 24, 48 and 72 hrs exposures. In pot experiment, maximum per cent mortality of root-knot nematode was recorded after 25 days in treatment T<sub>1</sub> (1000ppm) while minimum per cent mortality was recorded in treatment T<sub>5</sub> (62.5ppm).

**Key Words** : Nematicidal effect, lac based chemicals, root-knot nematode, *Meloidogyne incognita*.