

Nematicidal potential of aqueous extracts of botanicals on *Meloidogyne incognita in vitro*

Kavita Parihar, Bushra Rehman and Mansoor A. Siddiqui

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ABSTRACT : The experiment was conducted to test the nematostatic potential of aqueous extracts of different plant parts viz., leaves, flowers and seeds of both *Calotropis procera* and *Thuja orientalis*. The results revealed that standard aqueous concentration were found highly deleterious to J2 of *Meloidogyne incognita* either compared with other aqueous extracts or control (Distilled water). The per cent mortality were found maximum in the standard concentration of aqueous plant extracts followed by other aqueous extracts. Similar results were also found in case of hatching inhibition of J2 of *M. incognita*. However, S/100 concentration of all parts were found least effective as compared to S, S/2, S/10. The per cent mortality and percent inhibition increased with increase in the strength of aqueous extracts. Therefore, the higher concentration of plant parts of *C. procera* and *T. orientalis* showed more potential, nematostatic properties as compared to lower concentration.

Key Words: Nematicidal potential, Aqueous extracts, Botanicals, *M. incognita*, *in vitro*.