

Efficacy of certain botanicals for the management of phytonematodes infecting tomato and chilli

A. Usman

Received May 9, 2011 and Accepted October 3, 2011

ABSTRACT: Leaf extracts of two plants such as *Murraya koenigii* L. Spreng and *Vitex negundo* L. were used as bare-root dip treatment for the management of phytonematode, *Rotylenchulus reniformis* infecting tomato (*Lycopersicon esculentum*) and chilli (*Capsicum annum*) plants. Significant reduction was observed in the nematodes multiplication of *R. reniformis* on the experimental plants. Leaf extracts of *Murraya koenigii* caused relatively higher inhibition in nematode multiplication than that of *Vitex negundo*. Improvement in plant growth was noted, that seems to be due to dip treatment and with the consequence of nematode management. The efficacy of root-dip treatment with respect to improvement in plant weight and reduction in disease incidence increased with the increase in concentration of leaf extracts and dip duration.

Key Words: Bare-root dip treatment, *Murraya koenigii*, leaf extracts, plant-parasitic nematodes, *Vitex negundo*.