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EVALUATION OF A NEMATODE-ENCAPSULATING FUNGI COMPLEX FOR CONTROL OF *MELOIDOGYNE JAVANICA* ON POTATO

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Abstract

The efficacy of Nemout^{R} (AGRI-MART, INC.), a nematode-encapsulating fungi complex, was evaluated for control of *Meloidogyne javanica* on potato in 3 greenhouse experiments. Efficacy of Nemout at different rate was evaluated on cv. Ajax in one experiment, and comparisions with carbofuran (10 kg a.i/ha), and oxamyl (5 kg a.i/ha) were made on cv. Spunta in two other experiments. In all experiments, Nemout provided significant reductions in numbers of galls and eggs, as well as significant increases of tuber weight, at the recommended rate of 1.12 kg/ha of the formulated material as compared to the controls. More reductions ($P < 0.05$) of galls and eggs were obtained when rate of Nemout was doubled, but no further reductions ($P < 0.05$) occurred with triple rate. Although, applied twice at the recommended rate, nemout was not as effective in reducing galls and eggs as the namaticides. The relative efficacy of Nemout to the average effect of all tested nematicides was 70% on galls or 74.9% on eggs. Nemout has a good suppressive effect on nematodes at 1.12kg/ha or more, but further evaluations in the field are needed.