Pak. J. Nematol., 24 (1): 75-79, 2006

EVALUATION OF THE NEMATICIDAL EFFECTS OF A BIOTECHNOLOGICAL PRODUCT (ABAMECTIN) ON *MELOIDOGYNE INCOGNITA,* ROOT-KNOT NEMATODE INFECTING COWPEA PLANTS

A.O. HAMIDA, A.Y. EL-GINDI*, H.A. HODA, M.M. YOUSSEF AND M.L. ASMAHAN

Plant Pathology Department, Nematology Laboratory,
National Research Centre, Dokki, Cairo, Egypt
**Department of Zoology, Agricultural Nematology,*
Faculty of Agriculture, Cairo University, Egypt

Abstract

Six different levels of abamectin 1.8 % (belongs to avermectins) viz., 50, 100, 200, 400, 800 and 1200 ppm were added to soil infected with *Meloidogyne incognita,* root-knot nematode on cowpea plants under greenhouse conditions. A significant ($p \leq 0.05$ and 0.01) reduction in nematode criteria was found compared to untreated check. Data showed a clear correlation between increasing of abamectin concentrations and the percentages nematode reduction in roots and soil. The higher concentrations (200, 400, 800 and 1200 ppm) showed 100 % nematode reduction. However, an adverse effect was observed on plant growth parameters. Plant growth criteria improved at 50 and 100 ppm.