

LETTER TO THE EDITOR

**Compatibility between *Heterorhabditis bacteriophora* Poinar strain HC1 and *Lecanicillium lecanii* Zare & Gams strain VERTICEN-01 under laboratory conditions<sup>1</sup>**

**Compatibilidad entre *Heterorhabditis bacteriophora* Poinar cepa HC1 y *Lecanicillium lecanii* Zare & Gams cepa VERTICEN-01 en condiciones de laboratorio**

Dear Sir,

Compatibility between *Heterorhabditis bacteriophora* Poinar strain HC1 and *Lecanicillium lecanii* (Zare and Gams) strain VERTICEN 01 was evaluated in *Galleria mellonera* Fabricius as key insect under laboratory conditions using a random design with four treatments. The treatments were the application of nematodes alone, nematodes + fungi, fungi alone, and *G. mellonella* last instar larvae without treatment as the: control. The evaluations were made each 24 hours during four days. A mortality of 100% was observed in *G. mellonella* when nematodes alone or nematodes + fungi were applied; whereas in the treatment control (without bio-regulators) and the treatment with *L. lecanii*, mortality reached only 3%. The effect of *H. bacteriophora* in *G. mellonella* showed the existence of compatibility between this entomopathogenic nematode and *L. lecanii*. The treated *G. mellonella* larvae exhibited the typical symptoms of HC1 strain effect.

Sincerely yours,

**Esteban González<sup>1</sup>, R. Enrique<sup>1</sup>, Mayra G. Rodríguez<sup>1</sup>**

Centro Nacional de Sanidad Agropecuaria (CENSA), Dirección de Protección de Plantas, Apartado 10,  
San José de las Lajas, Mayabeque. Correo electrónico: [eglez@censa.edu.cu](mailto:eglez@censa.edu.cu)

---

<sup>1</sup> Research conducted under Project: Producción de Nematodos Entomopatógenos para el manejo de plagas agrícolas. (Integral Agreement between Cuba and Venezuela).