

# Sensitivity of *Trichoderma* Isolates to Selected Insecticides *in vitro*

**Ranganathswamy M, Patibanda A K, Krishna Murthy K V M and Prasuna Rani P**  
Department of Plant Pathology, Agricultural College, Bapatla-522 101, Andhra Pradesh.

## ABSTRACT

Laboratory experiment was conducted to assess the Sensitivity of *Trichoderma* isolates to eleven insecticides at concentration recommended for field use by following poisoned food technique and spore germination technique. The test *Trichoderma* isolates were found highly sensitive to organochlorine compound endosulfan and organophosphates namely chlorpyrifos, quinalphos and dimethoate and insensitivity to new generation insecticides like imidacloprid, thiamethoxam, emamectin benzoate and spinosad in assimilative phase, while on spore phase all the eleven insecticides were found toxic showing varied degree of inhibition. Based on radial growth and spore germination inhibition all the eleven insecticides were categorized into dangerous, cautious and safe groups. All the three insecticides belonging to organophosphates namely chlorpyrifos, quinalphos and dimethoate were found place in dangerous category, while endosulfan, thiamethoxam, emamectin benzoate, fipronil and spinosad were found place in cautious group. Only indoxacarb and imidacloprid were found safe to the test *Trichoderma* isolates.

**Key words :** Categorization, Insecticides, Sensitivity, *Trichoderma*.