

**NOTE: Toxicity of Some Insecticides on *Bracon hebetor*
under Laboratory Conditions**

Sohail Ahmed^{1,*} and Maqsood Ahmad¹

Insecticides which were environmentally friendly and the least toxic, were screened against a laboratory strain of *Bracon hebetor* (Say) (Hymenoptera: Braconidae) for their suitability for release in IPM of cotton. Concentrations ranging from 1 to 1000 ppm of the formulated insecticides in acetone were applied in glass vials and also by a leaf method, whereby cotton leaves were dipped in aqueous solutions of the same concentrations of insecticides. Adult parasitoids were exposed in both methods. According to the LC₅₀ at 24 h exposure, Λ -cyhalothrin and spinosad were the most (7 and 5 ppm) and least (263 and 225 ppm) toxic in the vial and the leaf method, respectively, to *B. hebetor*. The possible use of the parasitoid for IPM of cotton is discussed.

KEY WORDS: *Bracon hebetor*; IPM; cotton; endosulfan; triazophos; chlorpyrifos; Λ -cyhalothrin; cypermethrin; spinosad; emamectin benzoate; indoxacarb; azadirachtin.

Received Nov. 20, 2005; accepted April 26, 2006; <http://www.phytoparasitica.org> posting July 20, 2006.

¹Dept. of Agricultural Entomology, University of Agriculture, Faisalabad 38040, Pakistan. *Corresponding author [e-mail: saha786_pk@yahoo.com].