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RESEARCH PAPER

Studies on time-mortality response of diamondback moth, *Plutela xylostella* L. larvae to different insecticides and in combination with streptocycline

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Abstract : The toxicity of insecticides with bactericide and individual insecticides to test insect was quantified by adopting leaf dip bioassay method and the compatibility was assessed based on median lethal time (LT_{50}). The results clearly revealed that in some combinations toxicity was enhanced while in others the toxicity was lowered. Among seven insecticides in combination with bactericide streptocycline tested for efficacy, four insecticides (chlorantraniliprole, flubendiamide, proton[®] and profenophos) showed synergistic effect (SF 1.09, 1.04, 1.03 and 1.03, respectively), whereas three insecticides (indoxcarb, novaluron and hamla[®]) were antagonistic (SF 0.95, 0.94 and 0.92, respectively) against *P. xylostella* larvae.

Key Words : Diamondback moth, Insecticide, Bactericide, Synergism, Antagonism

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