

# **Bio-efficacy of Imidacloprid 17.8%, a Novel Insecticide Against Rice Planthoppers (BPH & WBPH) and its Natural Enemies**

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## **ABSTRACT**

Imidacloprid 17.8%SL, a novel insecticide formulation at five concentrations viz., 10g.a.i/ha, 15g.a.i/ha, 20g.a.i/ha, 25.g.a.i/ha and 30g.a.i/ha in comparison with monocrotophos 36SC were field evaluated against mixed population of planthoppers viz., brown planthopper (*Nilaparvata lugens* Stal.) and white-backed planthopper (*Sogatella furcifera* Horvath) in rice under irrigated conditions. The results indicated that the test product, imidacloprid 17.8%SL at four concentrations viz., @15, 20, 25 and 30g.a.i/ha were more effective and significantly superior in efficacy as compared to the check insecticide, monocrotophos 36SL @ 500g.a.i/ha. It also indicates that imidacloprid 17.8%SL is specific to target pest and eco-friendly to natural enemies viz., spiders and mirid bugs. The present studies conclude that the management of rice planthoppers through imidacloprid 17.8 %SL @ 20g.a.i /ha can be recommended as economical as well as eco-friendly.

**Key words :** Bioefficacy, Mirid Bugs, Rice Planthoppers (BPH/WBPH), Spiders