

# **Comparative Toxicity of Certain Novel Insecticides Against Rice Brown Planthopper, *Nilaparvata lugens* (Stal).**

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## **ABSTRACT**

Experiments were conducted during 2008-09 and 2009-10 to assess the bioefficacy of four novel insecticides viz., buprofezin 25 SC, pymetrozine 50 WG, imidacloprid+ethiprole-80 WG and ethiprole 10 SC against rice planthopper, *Nilaparvata lugens* (Stal). Buprofezin 25 SC was the most toxic (LC<sub>50</sub> values - 0.00014 to 0.00015 Percent) and ethiprole was the least toxic (LC<sub>50</sub> values - 0.00018 to 0.00035 per cent) against *N. lugens*. Buprofezin was 2.33-2.5; 1.26-1.28; 1.29-1.33 times more toxic than ethiprole, pymetrozine and imidacloprid + ethiprole at LC<sub>50</sub>, respectively.

**Key words :** Buprofezin, Ethiprole, Imidacloprid+ethiprole, *Nilaparvata lugens*, Pymetrozine, Toxicity.