

植物保护

印楝素与鱼藤酮及其复配混剂对斜纹夜蛾的毒效研究^{*}

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摘要 用印楝素和鱼藤酮及其复配混剂对斜纹夜蛾3龄幼虫进行毒力测定。结果表明,印楝素和鱼藤酮单剂的毒力作用为一种剂量依赖关系;其复配混剂的触杀最佳配比为2:6,此时印楝素和鱼藤酮浓度分别为200 μ g/mL和100 μ g/mL,共毒系数为423.15;其复配混剂的拒食最佳配比为3:5,此时AFC₅₀为1.2mg/L,发育抑制率达90%以上只需35mg/L。

关键词 [印楝素](#) [鱼藤酮](#) [斜纹夜蛾](#) [复配](#) [配比](#)

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Study on Toxicity of Azadirachtin and Rotenoid and Their Admixture Against *Spodoptera litura* F.

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Abstract

The toxicity of azadirachtin and rotenone and their admixture against the 3rd-instar larvae of *Spodoptera litura* F. were conducted in laboratory. The results showed that azadirachtin and rotenone enhanced their toxicity with increase of the dosage. For the admixture, the optimum proportion for contact toxicity was 2:6 when azadirachtin and rotenone concentration was 200 μ g/mL and 100 μ g/mL respectively. On this condition the co-toxicity coefficient was up to 423.15. The admixture produced a maximum anti-feeding effect and the AFC₅₀ was 1.2mg/L when the admixture was blended with azadirachtin and rotenone at the ratio of 3:5. The admixture at 35mg/L could inhibit the larvae growth by more than 90%.

Key words [Azadirachtin](#) [Rotenoid](#) [Spodoptera litura](#) F. [admixture](#) [proportion](#)

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