

绿僵菌复合油剂对草原蝗虫的防治试验

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摘要:

绿僵菌*Metarhizium anisopliae*是一类重要的昆虫病原真菌,是一种新型的生物防治技术。试验设试验药品2.5%绿僵菌复合油剂(c1 Bioc)和对照药品4.5%氯氰菊酯乳油2个试验组,每个试验组分3个剂量水平,即:450、600、750 mL/hm²。试验结果表明:绿僵菌3个剂量水平对防治草原蝗虫均具有良好的防治效果。因绿僵菌3个剂量水平与氯氰菊酯450 mL/hm²在防治草原蝗虫时防治效果差异不显著,在虫口密度较低时可选择绿僵菌450和600 mL/hm²的剂量水平进行防治。绿僵菌750 mL/hm²剂量水平与对照药品氯氰菊酯的中等剂量水平(600 mL/hm²)防治效果无显著差异,草原蝗虫密度较高时可选择使用。

关键词: 绿僵菌; 防蝗; 试验

Control effect of *Metarhizium anisopliae* complex preparation agent on grassland locust

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Abstract:

Metarhizium anisopliae, an important entomopathogenic fungus, is used for biological control. Two groups, 2.5% of *M. anisopliae* complex preparation agent (c1 Bioc) and 4.5% of Cypermethrin, were designed to test the control efficiency on grassland locust. And each group included 3 concentration levels (450 mL/hm², 600 mL/hm², 750 mL/hm²). The results indicated that the *M. anisopliae* agent showed excellent control efficiency at 3 concentration level. The control efficiency of 4.5% Cypermethrin at 450 mL/hm² of concentration was not significantly different from that of *M. anisopliae* agent, so the latter could be used while the locust density was lower. The control efficiency of 4.5% Cypermethrin at 600 mL/hm² of concentration was not significantly different from that of *M. anisopliae* agent at 750 mL/hm² of concentration, so the latter could be used while the locust density was higher.

Keywords: *Metarhizium anisopliae* locust control test

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