

研究简报

## 几种虫生真菌对斜纹夜蛾的致病性

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收稿日期 2006-3-4 修回日期 网络版发布日期 2007-5-18 接受日期 2007-1-7

**摘要** 用布氏白僵菌、球孢白僵菌、玫烟色拟青霉、绿僵菌和莱氏野村菌5种真菌的固体培养物, 对斜纹夜蛾2、3龄幼虫进行了毒力测定. 结果表明: 布氏白僵菌和莱氏野村菌两种菌株对斜纹夜蛾幼虫有明显的致病效果, 对2龄幼虫的致死中时(LT<sub>50</sub>)分别为2.95 d和4.10 d, 累计校正死亡率分别为100%和95.2%; 对3龄幼虫的致病力低于2龄, 致死中时(LT<sub>50</sub>)分别为19.67 d和19.63 d, 累计校正死亡率分别为56.6%和52.2%. 玫烟色拟青霉、球孢白僵菌两菌株也有一定的致病力, 对2龄幼虫的致死中时(LT<sub>50</sub>)分别为4.89 d 和6.34 d, 累计校正死亡率分别为85.7%和71.4%.

**关键词** [虫生真菌](#) [斜纹夜蛾](#) [致病性](#)

分类号

## Pathogenicity of several fungal species on *Spodoptera litura*.

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### Abstract

The virulence test of five species of entomogenous fungi *Beauveria brongniartii*, *Beauveria bassiana*, *Paecilomyces fumosoroseus*, *Metarhizium anisopliae* and *Nomuraea rileyi* to *Spodoptera litura* larvae showed that *B. brongniartii* and *N. rileyi* had evident pathogenic effects on *S. litura*, with the LT<sub>50</sub> value to *S. litura* 2nd instars being 2.95 and 4.10 days, and the corrected accumulative mortality of the instars being 100% and 95.2%, respectively. The virulence of *B. brongniartii* and *N. rileyi* to the 3rd instars was lower than that of 2nd instars. The LT<sub>50</sub> value to 3rd instars was 19.67 and 19.63 days, and the corrected accumulative mortality was 56.6% and 52.2%, respectively. Other two fungal species *P. fumosoroseus* and *B. bassiana* also had virulence to *S. litura* larvae. The LT<sub>50</sub> value for the 2nd instars was 4.89 and 6.34 days, and the corrected accumulative mortality reached 85.7% and 71.4%, respectively.

**Key words** [entomogenous fungi](#) [Spodoptera litura](#) [pathogenicity](#).

DOI:

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