

植物保护

蜡蚧轮枝菌昆明菌株的生物学特性研究 (一)——温度对菌落生长、产孢量和分生孢子萌发率的影响

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摘要 蜡蚧轮枝菌昆明菌株KM9803菌丝生长、分生孢子产生和萌发的温度范围是5~35℃, 适温范围是15~30℃, 最适温度范围是23~28℃, 最适温度25℃。当温度20~28℃时, 14 h分生孢子萌发率为98.6%~100%。在查彼克培养基(CzA)上, 20~28℃15 d平均产孢量范围是 $1.3 \times 10^9 \sim 4.9 \times 10^9$ 孢子/皿, 16 h分生孢子萌发率93.67%~100%。25℃最适于产孢。

关键词 [蜡蚧轮枝菌](#) [菌落](#) [分生孢子](#) [产孢量](#) [萌发率](#)

分类号 [Q 935](#)

A Study of Biological Character of *Verticillium lecanii* KM9803 Strain Isolated from Kunming

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Abstract

Strain KM9803 was an aphid-derived isolate of *Verticillium lecanii* (Zimm) Viegas from *Brassica oleracea* var *capitata* L. in greenhouse of Yunnan Agricultural University in 1998. Temperature of Mycelium growth, conidiospore production and germination of this isolate occurred between 5~35℃; The suitable temperature were between 15~30℃; The suitablest were between 23~28℃ and the optimal was 25℃ for it, growth, spore production and germination. The germination rate of conidiospore within 14 h was 98.6%~100% in 20~28℃. On CzA media, sporulation yield was ranging from 1.3×10^9 to 4.9×10^9 spores/dish in 15 days in 20~28℃, while 25℃ as optimal.

Key words [Verticillium lecanii](#) [mycelium growth](#) [conidia](#) [yield](#) [germination rate](#)

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