



赤水金钗石斛黑斑病菌生物学特性及防治研究

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Studies on biological characteristic of black rot in *Dendrobium nobile* of Chishui

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摘要 对金钗石斛黑斑病菌的生物学特性、培养性状及形态等研究表明,病原菌为细极链格孢菌(*Al-ternaria tenuissima*)。适宜菌丝生长的温度为5~35℃,最适温度为25℃,分生孢子萌发的温度范围为5~35℃,最适温度为25℃。光照对菌丝生长和孢子萌发无明显的影响。药效试验表明:10%苯醚甲环唑67μg/mL,64%恶霜灵1 607μg/mL对菌丝的抑菌率均为100%,90%乙磷铝的抑菌效果不明显。

关键词: 金钗石斛 黑斑病 生物学特性

Abstract: Biological characteristics of *Alternaria tenuissima* in *Dendrobium nobile* were studied. The results showed that the suitable temperature range for mycelial growth is from 5-35℃, and the optimum temperature is 25℃. The temperature is 5-35℃ to germinate of spores, and 25℃ were optimum. Different illumination did not obviously influence to mycelial growth and spores germination. The study also indicated that the fungicides (10% difenoconazole at 67μg/mL, and 64% oxadixyl at 1607μg/mL) creat strong fungistatic action against *Alternaria tenuissima* in vitro, and the percentage for fungistatic action of inhibitor to the mycelial growth recorded 100%. The fungicides (90% fosetyl-aluminium) is not obvious for fungistatic action.

Key words: *Dendrobium nobile* Lindl black spot biological of characterization

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