

萱草叶枯病菌生物学特性及对药剂敏感性研究

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Biological Characteristics and Fungicide Sensitivity of *Kabatiella microstictica* Causing Daylily Leaf Streak

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摘要 针对中国新发现的萱草叶枯病病原菌*Kabatiella microstictica* 的生物学特性和对药剂的敏感性进行了研究。结果表明: 病菌菌丝生长和产孢适宜温度为25 ~ 30 ℃, 最适温度28 ℃; 菌丝生长最佳培养基为PDA、PSA 和CA, 产孢最佳培养基为V8 汁培养基; D (+) - 麦芽糖和L - 白氨酸分别为菌丝生长和产孢的最佳碳源和氮源; pH 5 ~ 9 适宜菌丝生长, pH 7 产孢最佳; 光照对菌丝生长无影响, 但有利于病菌产孢; 病菌分生孢子的致死温度为49 ℃, 10 min。采用生长速率法测定了病菌对12 种杀菌剂的敏感性: 病菌对多菌灵、甲基硫菌灵、戊唑唑、丙环唑、氟硅唑、肟菌·戊唑醇、腈菌唑的敏感性较高, 其EC50 < 1.0 mg · L⁻¹, EC90 < 5.0 mg · L⁻¹。本研究结果为研究病害发生规律及病害防治提供理论依据。

关键词: 萱草 叶枯病 生物学特性 药剂敏感性

Abstract: The biological characteristics and fungicide sensitivity of *Kabatiella microstictica* causing daylily leaf streak were studied. The results showed that the suitable temperature for mycelium growth and spore production of the pathogen was from 25 ℃ to 30 ℃, and 28 ℃ was the optimum. The optimal media for mycelium growth were PDA, PSA and CA, but V8 juice was the best for spore production. D (+) - maltobiose and L-leucine were optimal for mycelium growth and spore production. The suitable pH for mycelium growth was 5 to 9, and 7 was optimum for spore production. Light could promote spore production and had no effect on mycelium growth. The lethal temperature of conidia was 49 ℃, 10 min. The sensitivity of *K. microstictica* to twelve fungicides was detected by mycelium growth rate method. The results showed that the pathogen was more sensitive to carbendazim, thiophanate-methyl, penconazole, propiconazole, flusilazole, trifloxystrobin·tebuconazole, myclobutanil, EC50 < 1.0 mg · L⁻¹, EC90 < 5.0 mg · L⁻¹. This study will lay theoretical foundation for occurrence law and control of the disease.

Keywords: *Hemerocallis*, daylily leaf streak, biological characteristics, laboratory toxicity

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