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## 半夏块茎腐烂病原鉴定和药效比较

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中文摘要:目的:研究半夏块茎腐烂病的病原和控制该病害的发生,为半夏栽培提供依据。方法:分离鉴定采用柯赫氏法则,菌丝生长条件采用2因子饱和D-最优设计,室内药效比较采用菌丝生长速率法。结果:形态学观察和致病性测定表明,引起半夏块茎腐烂病的病原物为尖孢镰刀菌*Fusarium oxysporum*。F. *oxysporum*菌丝生长的适宜温度为15-30℃,最适温度为21.9℃,适宜pH为6-8,最适pH 7.2,室内药效比较表明,70%甲基托布津和58%甲霜灵锰锌对F. *oxysporum*菌丝生长的抑制效果最好,EC<sub>50</sub>分别为0.002 7,0.066 2 g·L<sup>-1</sup>。结论:明确了半夏块茎腐烂病病原,为该病害的防治提供了依据。

中文关键词:半夏 块茎腐烂病 病原鉴定

Pathogen identification of *Pinellia ternata* tuber disease and selection of fungicide

**Abstract:** The rotten tuber of *Pinellia ternata* was found as an important disease during the growing season in Tianshui production area. The isolated pathogens were tested following Koch's postulates and identified as *Fusarium oxysporum*. The suitable growth conditions for the F. *oxysporum* were 15-30 °C, pH 6-8, the optimal condition was 21.9 °C and pH 7.2. Some fungicides were demonstrated to be effective to inhibit the pathogen growth. 70% thiophanate-methyl and 58% metalaxyl MZ were most effective to inhibit the pathogen. The EC<sub>50</sub> were 0.002 7, 0.066 2 g · L<sup>-1</sup>, respectively.

**keywords:** *Pinellia ternata* rotten tuber pathogen identification

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