

植物保护—研究报告

一种测定杀菌剂对灰霉病菌(*Botrytis cinerea*)毒力方法的改进

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摘要:

通过在灰霉病菌 (*Botrytis cinerea*) 分生孢子悬浮液中加入1%酵母浸膏、2.5%葡萄糖和10%胡萝卜汁, 接种离体黄瓜子叶, 病叶率及发病均匀度较高, 确立了一种重复性好、操作简便的测定杀菌剂对灰霉病菌毒力的新方法—黄瓜子叶喷雾法。以该方法、菌丝生长速率法和孢子萌发法分别测定比较了戊唑醇、代森锰锌和异菌脲对灰霉病菌的毒力, 发现药剂浓度的对数值与其抑制率的几率值之间有很高的相关性, 相关系数均大于0.95。该方法可用于灰霉病菌抗药性监测和杀菌剂敏感性测定。

关键词: 室内毒力

Improvement of a fungitoxicity test of fungicide to *Botrytis cinerea*

Abstract:

A new test (cucumber cotyledons spray inoculation test) of fungitoxicity of fungicide to *Botrytis cinerea* was established through inoculation on cucumber cotyledons with conidial suspension of *B. cinerea* amended with 1% yeast extract, 2.5% glucose and 10% carrot juice. The results showed that the test exhibits high disease incidence and uniform disease severity, good repetition and simple operation. Inhibitory activity of tebuconazole, mancozeb and iprodione to *Botrytis cinerea* was tested and compared by cucumber cotyledons spray inoculation test, mycelial growth rate test and conidial germination test, it was found that a high correlation was shown between the logarithmic concentrations of fungicide and probability values of inhibition rate, the correlation coefficients were all above 0.95. This method could be used in fungicide sensitivity test and screening resistance level of fungicide against *Botrytis cinerea*.

Keywords: fungitoxicity

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 2. 邓明学.联苯菊酯等6种农药对柑桔木虱成虫室内毒力测定及田间药效试验[J]. 中国农学通报, 2009,25(15): 0-
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