

研究简报

莲子草假隔链格孢毒素的分离纯化与结构鉴定

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收稿日期 2005-7-8 修回日期 网络版发布日期 2007-3-28 接受日期

摘要 从莲子草假隔链格孢(*Nimbya alternantherae*)中分离纯化了一种毒素物质, 并对其进行了结构鉴定, 为研究其致病机理及进一步的化学合成奠定了基础。

关键词 [莲子草假隔链格孢](#) [致病毒素](#) [分离纯化](#) [结构鉴定](#) [2-乙酰基-3,4-二羟基-5-甲氧基苯乙酸](#)

分类号 [0625.5](#) [Q936](#) [065](#)

Separation, Purification and Structural Identification of the Phytotoxin from *Nimbya Alternantherae*

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Abstract *Nimbya alternantherae* is a leaf spot fungus isolated from *Alternanthera philoxeroides*. It could produce phytotoxin to *Alternanthera philoxeroides* in several kinds of liquid media, especially in modified Fries. The filtrate of the pathogen was chromatographed on a DM-130 colophony column eluting with methanol, and evaporation of the solvent gave a brown mush. The crude product was then extracted with ethyl acetate. The toxin could be purified as white needles by re-crystallizing from benzene and acetone (volume ratio is 1:1) and silica gel chromatography. The results of elemental analysis, MS, IR and NMR indicate that molecular weight of the toxin was 240, formula was $C_{11}H_{12}O_6$, and its chemical name was 2-acetyl-3,4-dihydroxy-5-methoxyphenyl-acetic acid (Vulculic acid).

Key words [Nimbya alternantherae](#) [Phytotoxin](#) [Separation and purification](#) [Structural identification](#) [2-Acetyl-3,4-dihydroxy-5-methoxyphenyl-acetic acid](#)

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