

农学—研究报告

山东半岛地区土壤中木霉菌资源分类研究

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摘要:

为明确山东半岛地区的木霉菌资源,从半岛地区采集的59份土壤样品中共分离纯化出木霉菌株127株,采用形态学及ITS/5.8S测序分析,对这些木霉菌进行了分类鉴定。结果表明形态学与ITS鉴定结果一致,共鉴定出7个木霉菌集合种:哈茨木霉、棘孢木霉、深绿木霉、黄绿木霉、粘绿木霉、橘绿木霉、长枝木霉。深绿木霉和哈茨木霉出现频率最高,分别是26.0%、25.2%,是土壤中的优势种群。

关键词: ITS

The Research of Classification of Tichoderma Species in Shandong Peninsula

Abstract:

In order to understand the resource of Tichoderma species in Shandong Peninsula, one hundred and twenty-seven isolates of Trichoderma spp. were isolated from 59 soil samples that collected in Shandong Peninsula. The morphological characteristics and ITS analysis were used to identify the Trichoderma spp. strains. And the result of ITS analysis was coincident with the morphological characteristics. The result showed that the strains belonged to Trichoderma harzianum, Trichoderma atroviride, Trichoderma asperellum, Trichoderma virens, Trichoderma citrinoviride, Trichoderma aureoviride, Trichoderma longibrachiatum. The appearance frequencies of species Trichoderma harzianum, Trichoderma atroviride were very high, 26.0% and 25.2% respectively.

Keywords: ITS

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