

植物保护

枯草芽孢杆菌 B9601-Y₂基因组文库的构建*

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摘要 枯草芽孢杆菌B9601-Y₂是一个具有防治植物病害和促进植物生长的专利菌株。本文采用Sau3A I部分酶切的DNA、粘粒载体pLARF-5和Packagene λ DNA包装系统,构建了该菌株基因组文库。文库总量为11 000个克隆,插入片段平均长度为14.77 kb,按99.99%的概率计算,文库覆盖了基因组4.2次。这为该菌株防治病害和促进植物生长机理研究奠定了物质基础。

关键词 [枯草芽孢杆菌 B9601-Y₂](#); [基因组文库](#); [粘粒载体](#)

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Construction of a Genomic Library of *Bacillus subtilis* B9601-Y₂

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Abstract

Bacillus subtilis B9601-Y₂ is a patented bioagent controlling fungal diseases and promoting growth of plants. Its genomic DNA library was constructed by partial digestion with *Sau3A I* and *cosmid* vector pLARF-5 following the Packagene Lambda DNA Packaging System. The library contains 11 000 clones with an average of 14.77 kb insert, covering 4.2 genomic equivalences under 99.99% probability, which provides with basis the research on mechanisms of controlling diseases and promoting growth for the bacterium.

Key words [Bacillus subtilis B9601-Y₂](#); [genomic library](#); [cosmid vector](#)

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