

研究简报

红树林细菌 *Rhodococcus ruber* 1K 降解邻苯二甲酸二丁酯的研究

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收稿日期 2004-10-22 修回日期 2005-3-3 网络版发布日期 接受日期

摘要

关键词

分类号

Biodegradation of di-n-butyl phthalate by mangrove microorganism *Rhodococcus ruber* 1K

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Abstract

A di-n-butyl phthalate (DBP) degrading bacterium *Rhodococcus ruber* was isolated from mangrove soil, and its degrading characteristics were studied. The results showed that the bacterium could grow well on the substrate with DBP as the sole source of carbon and energy, and the DBP of 50 mg·L⁻¹ could be completely degraded after 48 h. Under aerobic condition, the tentative pathway proposed for DBP degradation was through monoester initially, then phthalic acid, and finally CO₂ and H₂O.

Key words [Di-n-butyl phthalate](#) [Biodegradation](#) [Mangrove](#)

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