

野油菜黄单胞菌S-152遗传转移系统的建立及外源性内切葡聚糖酶基因在其体内的表达 Development of Genetic transfer System and Expression of an Extraneous Endoglucanase gene in xanthomonas s-152

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摘要

(通过细胞接合的方式将广宿主质粒pRK404、pKT230和RP4分别转入野油菜黄单胞菌S-152中,其转移频率均在10⁻⁴数量级上,从而建立起了S-152的转移系统。用同法将由载体质粒pRK404和白纹黄单胞菌XA1-1的CMCase基因构成的重组质粒pND82转入到S-152中并得到了表达,使S-152(pND82)的胞内CMCase酶活比出发菌株S-152提高了1倍。The wide-host-range plasmid vectors pRK404 and pKT230 were transferred into a recipient strain S-152 respectively by conjugation with the aid of the helper plasmid pRK2013 at frequencies of 10⁻⁴, and a genetic transfer system for S-152 was developed. A recombinant plasmid pND82, constructed by combining the plasmid vector pRK404 with a chromosomal DNA fragment coding for CMCase from XA1-1, was introduced into S-152 by this transfer system. As a result, the intracellular CMCase activity of S-152 (pND82) increases 1 time in comparison with S-152.

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