大肠杆菌的一株抗苯乙醇的dnaB突变型

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摘要 通过硫酸二乙醋诱变,选得一株抗苯乙醇的DNA复制突变型FDI05。从温度和氨基酸饥饿对DNA残余合成的影响,以及在限制温度中噬菌体增殖情况可以看到,FD105是DNA复制链延长突变型。我们证实了温度敏感和苯乙醇抗性是同一基因突变的结果。这一基因被定位在dnaB座位。已有的研究表明苯乙醇的作用部位是细胞膜,链延长dnaB突变型同时抗苯乙醇,这是链延长与膜有关的一个旁证。

关键词

分类号

A Phenylethyl Alcohol Resistant Temperature Sensitive dnaB Mutant in Escherichia col

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Abstract

 A phenylerhyl alcohol resistant temperature sensitive DNA replication mutant FD105 wa. s isolated following diethyisulfate mutagenesis. From the observation on the effect of temperature and ,amino acids starvation on the residual DNA synthesis and the replication of phage X at nonpermissive temperature it was inferred that FD105 is a DNA chain elongation mutant.
 Temperature sensitiveness and PEA-resistance were proved to b·e the manife·station of the same mutation, which was localized within the gene dna-B. The target of aeticn of PEA is the cell membrane. The fact that the chain elongation mutant dnaB is also a PEA-resistant mutant speaks for the notion that the cel membrane is releva: Yt 'to DNA chain elongation.

Key words

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扩展功能

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