

United States Patent [19]

Uhlin et al.

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[54] **PLASMID HAVING TEMPERATURE
DEPENDENT PLASMID COPY NUMBER**

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Denmark**

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[30] Foreign Application Priority Data

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[52] U.S. Cl. 435/317; 935/29;
935/43; 435/172.3

[58] Field of Search 435/317, 172, 68

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[57] ABSTRACT

Gene products of plasmid DNA, such as proteins, are prepared in high yields by cultivating bacteria carrying a plasmid which shows a controlled constant plasmid copy number at one temperature and a much higher or totally uncontrolled copy number at a different temperature. The plasmid may be prepared by recombinant DNA technique using a cloning vector showing the temperature dependent plasmid copy number pattern.

9 Claims, 4 Drawing Figures

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Fig. 1.

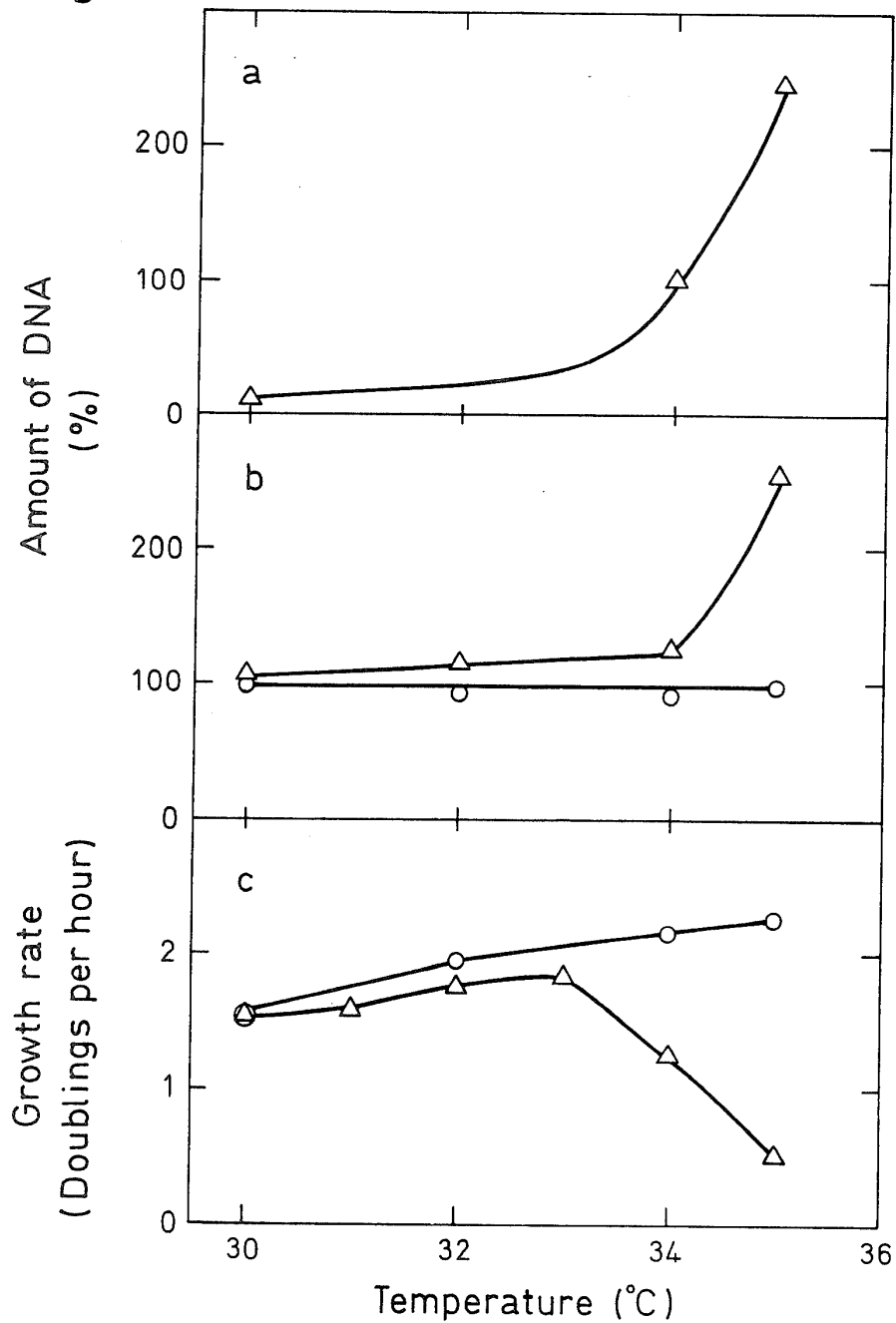


Fig. 2.

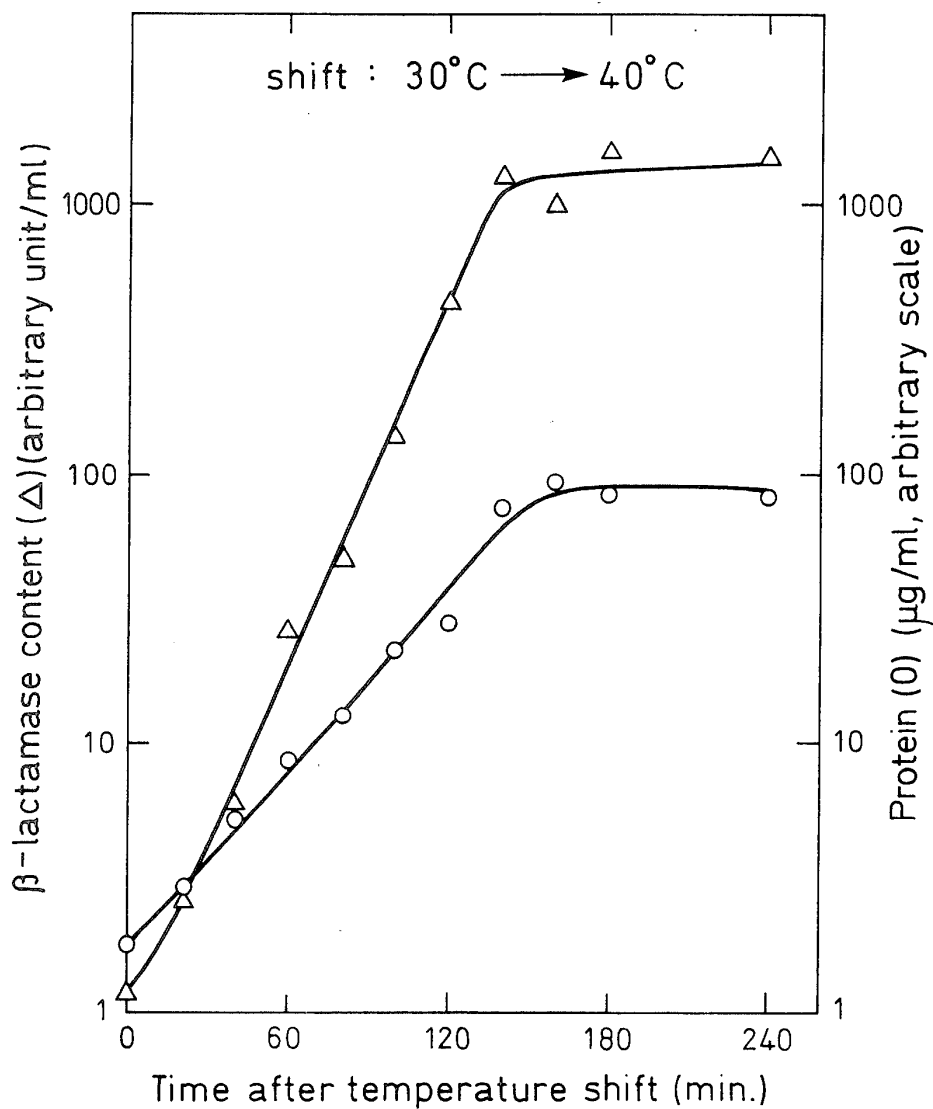
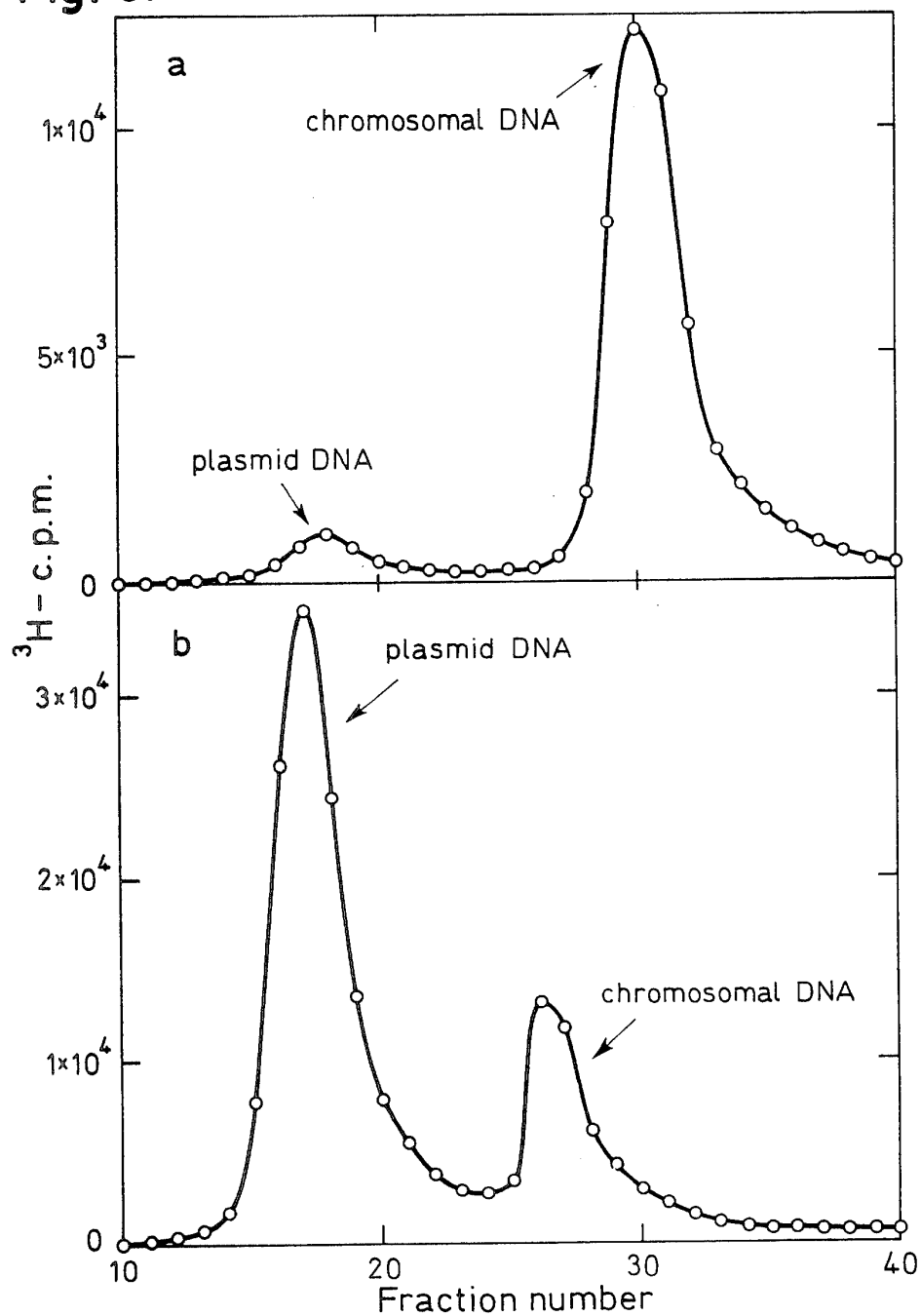


Fig. 3.



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