

Lambda DNA

Cat. No. 25250-010

Conc.: 0.25-0.6 µg/µl

Size: 500 µg

Store at 4°C.

Description:

Lambda (λ) DNA is isolated from a *dam*⁺ *dcm*⁺ *E. coli* LE597 lysogen. The genotype is *c*lind1ts857Sam7. This DNA is suitable for use as a molecular size standard for gel electrophoresis analysis and as a substrate for restriction endonucleases.

Storage Buffer:

10 mM Tris-HCl (pH 7.4)

5 mM NaCl

0.1 mM EDTA

Molecular Weight (1):

32×10^6 daltons

(48,502 base pairs)

Quality Control:

Purity, DNA structure, and selected restriction endonuclease fragmentation patterns are verified by agarose gel analysis.

Note:

Upon storage at 4°C, the DNA forms linear aggregates as well as circular structures due to the presence of cohesive termini. Heating of the DNA to 65°C for 10 min followed by quick cooling will restore it to its linear form.

Reference:

1. Sanger, F., et al. (1982) *J. Mol. Biol.* 162, 729.

Headquarters

5791 Van Allen Way | Carlsbad, CA 92008 USA

Phone +1 760 603 7200 | Toll Free in USA 800 955 6288

For support visit

www.lifetechnologies.com/support or email techsupport@lifetech.com

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