DATA SHEET

Jena Bioscience

Lambda DNA

Positive control templates for PCR

Cat. No.	Amount
PCR-259	2 x 1 ml (100 ng/µl)

For general laboratory use.

Shipping: shipped on gel packs

Storage Conditions: store at -20 °C

Additional Storage Conditions: avoid freeze/thaw cycles, aliquoting of DNA samples is recommended

Shelf Life: 12 months

Molecular Weight: 31.5 x 10^6 Dalton

Form: liquid (Supplied in 10 mM Tris-HCl pH 7.4 and 1 mM EDTA)

Concentration: 100 ng/µl

Description:
Lambda DNA is recommended as template in positive control PCRs, as substrate in restriction enzymes research and for testing of restriction endonucleases activity. The double stranded DNA is isolated from bacteriophage lambda (cI857 *ind*1 *Sam*7). Double stranded DNA with 48,502 base pairs.

Preparation:
The DNA is isolated from the purified phage by phenol/chloroform extraction.

Quality control:
Gel analysis for purity, EcoRI and HindIII fragmentation patterns.

Selected References:

Daniels *et al.* (1983) Appendix II: Complete annotated lambda sequence, R. W. Hendrix, J. W. Roberts, F. W.Stahl, and R. A. Weisberg, Eds. (Cold Spring Harbor Laboratory, Cold Spring Harbor 519 [LAMBDA II].

Daniels *et al.* (1983) Appendix I: A molecular map of coliphage lambda, R. W. Hendrix, J. W. Roberts, F. W.Stahl, and R. A. Weisberg, Eds. (Cold Spring Harbor Laboratory, Cold Spring Harbor 469. [LAMBDA II].

Sanger *et al.* (1982) Nucleotide sequence of bacteriophage lambda DNA. *J. Mol. Biol.* **162**:729.