Lambda DNA (N^6-methyladenine-free)

1-800-632-7799
info@neb.com
www.neb.com

N3013S 048130815081

N3013S

250 µg **Lot: 0481308** **Exp: 8/15**

500 µg/ml **Store at –20°C**

Description: Duplex DNA is isolated from bacteriophage lambda (*c*I857 *ind* 1 *Sam* 7). The bacteriophage is grown in an *E. coli* host which is deficient in adenine methylase (*dam*⁻). Therefore, those deoxyadenosine positions which are methylated in a wild type *E. coli* host are not methylated in the *dam*⁻ host. This DNA gives complete digests with restriction endonucleases that are sensitive to *dam* methylation. Lambda DNA (N^6-methyladenine-free) is 48,502 base pairs in length.

Source: The phage is isolated from a heat-inducible *E. coli* (*dam*⁻) lambda lysogen. The DNA is isolated from purified phage by phenol extraction and dialyzed against 10 mM Tris-HCl (pH 8.0) and 1 mM EDTA.

Supplied in: 10 mM Tris-HCl (pH 8.0) and 1 mM EDTA.

Molecular Weight: 31.5 x 10^6 daltons.

Note: The advantage of this DNA is that it gives complete digests with those restriction endonucleases (BclI, MboI, DpnII, etc.) whose recognition sites are partially modified by most *E. coli* strains.

Reference:

1. Daniels, D.L. et al. (1983). Appendix II: Complete Annotated Lambda Sequence. In R.W. Hendrix, J.W. Roberts, F.W. Stahl and R.A. Weisberg (Eds.), *Lambda-II* (pp. 519–676). New York: Cold Spring Harbor Laboratory Press.

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