Lambda DNA– HindIII Digest







150 gel lanes (150 μg)

Lot: 1721209

500 μg/ml

Store at -20°C Exp: 9/14

1.5 ml Gel Loading

Dye, Blue (6X) Store at 25°C

Description: The HindIII digest of lambda DNA (cl857 ind 1 Sam 7) yields 8 fragments suitable for use as molecular weight standards for agarose gel electrophoresis (1).

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

Source: The phage is isolated from the heat-inducible lysogen *E. coli* λ *c*1857 S7 and then isolated from the purified phage by phenol

extraction and dialyzed. The double-stranded DNA is digested to completion with HindIII, phenol extracted and dialyzed against 10 mM Tris-HCI (pH 8.0) and 1 mM EDTA.

Reagents supplied:

6X Gel Loading Dye, Blue

1X Gel Loading Dye, Blue:

2.5% Ficoll-400 11 mM EDTA 3.3 mM Tris-HCl (pH 8.0@25°C) 0.017% SDS

0.015% bromophenol blue

Usage Recommendation: The approximate mass of DNA in each of the bands in our Lambda DNA-HindIII Digest is as follows (assuming a 1.0 μ g loading):

Fragment	Base Pairs	DNA Mass
1	23,130	477 ng
2	9,416	194 ng
3	6,557	135 ng
4	4,361	90 ng
5	2,322	48 ng
6	2,027	42 ng
7	564	12 ng
8	125	3 ng

Note: For long term storage, store at -20° C. If samples need to be diluted, use TE or other buffer of minimal ionic strength. DNA may denature if diluted in dH₂0 and subsequently heated. Temperatures > 60° C may cause denaturation.

The cohesive ends of fragments 1 and 4 may be separated by heating to 60°C for 3 minutes.

- 23,130 - 9,416 - 6,557 - 4,361 Lambda DNA-HindIII Digest visualized by ethidium bromide staining. 1.0% agarose gel.

CERTIFICATE OF ANALYSIS

Lambda DNA-HindIII Digest



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

N3012S

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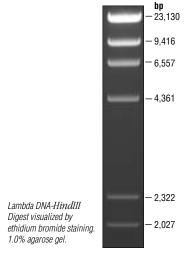
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Suggested protocol for loading a sample:

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5 mm wide lane.

Distilled water

DNA Ladder

Total volume

2. Mix gently

agarose gel.

References:

745-761.

1. Prepare loading mixture:

6X Blue Loading Dve

3. Load onto the agarose gel

The following protocol is recommended for a

Note: The components of the mixture should be

1. Daniels, D.L. et al. (1983). In R.W. Hendrix,

Cold Spring Harbor Laboratory Press.

J.W. Roberts, F.W. Stahl and R. A. Weisberg

(Eds.), Lambda-II (pp. 519–676). New York:

2. Forster, A.C. et al. (1985) Nucl. Acids Res. 13,

scaled up or down, depending on the width of the

3 μΙ

1 ul

2 μΙ

6 ul

The following protocol is recommended for a 5 mm wide lane.

1. Prepare loading mixture:

Distilled water	3 μ
6X Blue Loading Dye	1 μ
DNA Ladder	2 μ
Total volume	- 6 μ

- 2. Mix gently
- 3. Load onto the agarose gel

Note: The components of the mixture should be scaled up or down, depending on the width of the agarose gel.

References:

- Daniels, D.L. et al. (1983). 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.
- Forster, A.C. et al. (1985) Nucl. Acids Res. 13, 745–761.

CERTIFICATE OF ANALYSIS