Lambda DNA– BstEII Digest







N3014S

150 gel lanes (150 µg) Lot: 0811111 Exp: 11/13

500 μg/ml

Store at -20°C

1.5 ml Gel Loading

Dye, Blue (6X) Store at 25°C

Description: The BstEII digest of lambda DNA (cl857 ind 1 Sam 7) yields 14 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 $E.\ coli\ \lambda.\ cl857\ S7$ and then isolated from the purified phage by phenol extraction and dialyzed. The double-stranded DNA is digested to completion with BstEII, 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% FicoII-400 11 mM EDTA

3.3 mM Tris-HCI (pH 8.0@25°C)

0.017% SDS

0.015% bromophenol blue

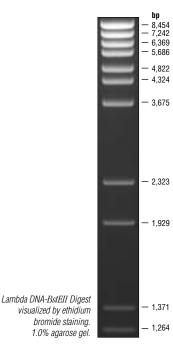
Usage Recommendation: The approximate mass of DNA in each of the bands in our Lambda DNA-BstEII Digest is as follows (assuming a 1.0 μg loading):

Fragment	Base Pairs	UNA Wass
1	8,454	174 ng
2	7,242	149 ng
3	6,369	131 ng
4	5,686	117 ng
5	4,822	99 ng
6	4,324	89 ng
7	3,675	76 ng
8	2,323	48 ng
9	1,929	40 ng
10	1,371	28 ng
11	1,264	26 ng
12	702	14 ng
13	224	5 ng
14	117	2 ng

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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 subsquently 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.



(see other side)
CERTIFICATE OF ANALYSIS

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



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Reagents supplied:

6X Gel Loading Dye, Blue

1X Gel Loading Dye, Blue:

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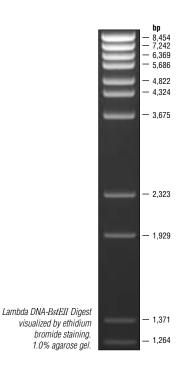
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The cohesive ends of fragments 1 and 4 may be separated by heating to 60°C for 3 minutes.



(see other side)
CERTIFICATE OF ANALYSIS

Suggested protocol for loading a sample:

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

1. Prepare loading mixture:

Distilled water $3 \mu l$ 6X Blue Loading Dye $1 \mu l$ DNA Ladder $2 \mu l$ Total volume $6 \mu l$

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.
- 2. Forster, A.C. et al. (1985) *Nucl. Acids Res.* 13, 745–761.

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Suggested protocol for loading a sample:

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1. Prepare loading mixture:

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

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.

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