

Product Information

LAMBDA DNA BSTE II DIGEST

Product No **D9793**

Lot 019H9099

Store at less than 0°C

Product Description

Suitable for use as a molecular weight marker for agarose or acrylamide gel electrophoresis.

Ethidium bromide background can be reduced by destaining 30-45 minutes in 1X electrophoresis buffer.

Storage Buffer: 10 mM Tris-HCl, pH 8.0,
0.1mM EDTA

Suitability Assay

Lambda BstE II Digest was prepared for electrophoresis as follows:

10 µg Lambda BstEII Digest
0.3 volumes gel loading solution (G2526)
(0.05% w/v bromophenol blue,
40% w/v sucrose, 0.1 M EDTA pH 8.0)

The above solution was heated to 65°C for 5 minutes and quick cooled on ice. 0.15-0.30 µg were loaded on a 0.7% agarose (A9539) submarine-type minigel. Agarose gel electrophoresis was performed in 1X TBE (0.89 M Tris borate, pH approx. 8.3, containing 2 mM EDTA).

The gel was run with appropriate DNA fragment size standards at 50-80 volts until the tracking dye reached the bottom of the gel. After staining 15-20 minutes in 1µg/ml ethidium bromide, 12 of 14 bands (702 - 8,454 bp) were clearly resolved and the pattern was consistent with the indicated fragment sizes.

Fragment Sizes: base pairs (bp)

8,454	2,323
7,242	1,929
6,369	1,371
5,686	1,264
4,822	702
4,324	224
3,675	117

References

- 1.) Daniels, D.L., et al., Appendix II: Complete Annotated Lambda Sequence in Lambda-II, Cold Spring Harbor Laboratory, N.Y. (1983) eds.
- 2.) Hendrix, R.W., Roberts, J.W., Stahl, F.W. and Weisberg, R.A.

2/99

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.