

Product Information

LAMBDA DNA BSTE II DIGEST

Product No **D 9793**

Lot 49H9085

Store at less than 0°C

Product Description

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

A_{260}/A_{280} Ratio: 1.9

Concentration: 428 µg/ml

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

Storage Buffer

10 mM Tris-HCl, pH 8.0, 0.1 mM EDTA

Suitability Assay

Lambda BstE II Digest was prepared for electrophoresis as follows:

10 µg	Lambda BstEII Digest
0.3 volumes	Gel loading solution (Product No. G 2526, 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 (Product No. A 9539) 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 1 µg/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 (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.