

## Product Information

### LAMBDA DNA BSTE II DIGEST

Product No **D9793**

Lot 39H9120

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: 480 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. 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 (Product No. 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 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.