pBR322 DNA-**BstNI Digest**



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



50 gel lanes (50 µg)

Lot: 0601204 Exp: 4/14 Store at -20°C

1.5 ml Gel Loading

1,000 µg/ml

Store at 25°C Dye, Blue (6X)

Description: The BstNI Digest of pBR322 DNA yields 6 fragments suitable for use as molecular weight standards for agarose gel electrophoresis (1,2).

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

Reagents supplied:

6X Gel Loading Dye, Blue

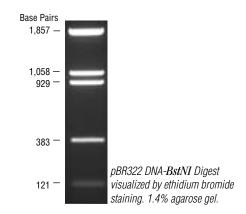
1X Gel Loading Dve. Blue:

2.5% FicoII-400 11 mM FDTA 3.3 mM Tris-HCI (pH 8.0@25°C) 0.017% SDS 0.015% bromophenol blue

Preparation: Prepared from *E. coli* ER2420 (dam+dcm+ EcoKM-) by a standard plasmid purification procedure, the double-stranded DNA is digested to completion with BstNI, phenol extracted and equilibrated to 10 mM Tris-HCI (pH 8.0) and 1 mM EDTA.

Usage Recommendation: The approximate mass of DNA in each of the bands in our pBR322 DNA-BstNI Digest is as follows (assuming a 1.0 µg loading):

Fragment	Base Pairs	DNA Mass
1	1,857	426 ng
2	1,058	243 ng
3	929	213 ng
4	383	88 ng
5	121	28 ng
6	13	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 dH₂O.

Suggested protocol for loading a sample:

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

1. Prepare loading mixture:

Distilled water 4 µl 6X Blue Loading Dve 1 µl **DNA Ladder** 1 µl 6 ul Total volume

- 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:

- 1. Sutcliffe, J. G. (1978) Cold Spring Harbor Symp. Quant. Bio. 43:77-90.
- 2. Peden, K. W. C. (1983) Gene 22, 277-280.
- 3. Forster, A.C. et al. (1985) Nucl. Acids Res. 13, 745-761

CERTIFICATE OF ANALYSIS

pBR322 DNA-



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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 dH₂O.

Suggested protocol for loading a sample:

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

1. Prepare loading mixture:

Distilled water	4 µl
6X Blue Loading Dye	1 µl
DNA Ladder	1 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.

References:

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BstNI Digest





N3031S

50 gel lanes (50 µg)

Lot: 0601204 Exp: 4/14 1,000 µg/ml Store at -20°C

1.5 ml Gel Loading

Dye, Blue (6X)

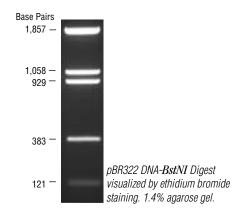
Store at 25°C

Description: The BstNI Digest of pBR322 DNA yields 6 fragments suitable for use as molecular weight standards for agarose gel electrophoresis (1,2).

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

Reagents supplied:

6X Gel Loading Dye, Blue



CERTIFICATE OF ANALYSIS