



N3032S

50 gel lanes (50 µg) Lot: 1531204 Exp: 4/14 1,000 µg/ml Store at -20°C

10

BioLabs

1-800-632-7799

info@neb.com www.neb.com

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1.5 ml Gel Loading

Dye, Blue (6X) Store at 25°C

Description: The Mspl digest of pBR322 DNA vields 26 fragments.

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

Reagents supplied: 6X Gel Loading Dye, Blue

pBR322 DNA-**MspI Digest**



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1.5 ml Gel Loading

Dye, Blue (6X)

Description: The Mspl digest of pBR322 DNA yields 26 fragments.

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

Reagents supplied: 6X Gel Loading Dye, Blue

1X Gel Loading Dye, Blue: 2.5% Ficoll-400 11 mM EDTA 3.3 mM Tris-HCI (pH 8.0@25°C) 0.017% SDS 0.015% bromophenol blue 1-800-632-7799

1X Gel Loading Dve. Blue:

3.3 mM Tris-HCI (pH 8.0@25°C)

Preparation: Prepared from E. coli ER2420

(dam⁺ dcm⁺ EcoKM⁻) by a standard plasmid purification procedure, the double-stranded DNA

is digested to completion with Mspl, phenol

extracted and equilibrated to 10 mM Tris-HCI

Usage Recommendation: The approximate

mass of DNA in each of the bands in our

pBR322 DNA- Mspl Digest is as follows

0.015% bromophenol blue

(pH 8.0) and 1 mM EDTA.

(assuming a 1.0 µg loading):

2.5% Ficoll-400

11 mM FDTA

0.017% SDS

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



	Fragment	Base Pairs	DNA Mass
	1	622	143 ng
	2	527	121 ng
	3	404	93 ng
	4	307	70 ng
	5	242	55 ng
	6	238	55 ng
	7	217	50 ng
	8	201	46 ng
	9	190	44 ng
	10	180	41 ng
	11, 12	160	74 ng
	13, 14	147	68 ng
	15	123	28 ng
	16	110	25 ng
Diaest	17	90	21 ng
Im	18	76	17 ng
8%	19	67	15 ng
070	20, 21	34	16 ng
	22, 23	26	12 ng
	24	15	3 ng
	25, 26	9	4 ng

(see other side)

CERTIFICATE OF ANALYSIS

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622	1	622	143 ng
527 -	2	527	121 ng
	3	404	93 ng
404 —	4	307	70 ng
307 —	5	242	55 ng
	6	238	55 ng
238 + 242 -	7	217	50 ng
	8	201	46 ng
180 —	9	190	44 ng
160 + 160 — 147 + 147 —	10	180	41 ng
100	11, 12	160	74 ng
123 —	13, 14	147	68 ng
	15	123	28 ng
90 —	16	110	25 ng
76 – nBB322 DNA-MshI Digest	17	90	21 ng
67 – pbhotz bhv high bigot	18	76	17 ng
hromide staining 1.8%	19	67	15 ng
anarose nel	20, 21	34	16 ng
agarose ger	22, 23	26	12 ng
	24	15	3 ng
	25, 26	9	4 ng

(see other side)

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.

Page 2 (N3032)

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References:

References:

1. Sutcliffe, J. G. (1978) Cold Spring Harbor

2. Peden, K. W. C. (1983) Gene, 22, 277-280.

Symp. Quant. Bio. 43,77–90.

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