

Mass DNA Ladder



1-800-632-7799
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N3237S 002130815081

N3237S

50–200 gel lanes (1 ml) Lot: 0021308

Exp: 8/15 50 µg/ml Store at 4°C

1.5 ml Gel Loading Dye, Orange (6X)

Store at 25°C

Description: The Mass DNA ladder is a pre-mixed, ready-to-load molecular weight marker containing Orange G dye as a tracking dye.

The DNA Ladder consists of proprietary plasmids, which are digested to completion with appropriate restriction enzymes to yield 7 bands suitable for size determination and mass quantification of linear double-stranded DNA fragments. The

digested DNA includes fragments ranging from 0.5 to 10 kilobases.

Supplied in: 2.5% Ficoll-400, 11 mM EDTA, 3.3 mM Tris-HCl (pH 8.0 at 25°C), 0.017% SDS and 0.15% Orange G.

Reagents supplied:

6X Gel Loading Dye, Orange

1X Gel Loading Dye, Orange:

2.5% Ficoll-400

11 mM EDTA

3.3 mM Tris-HCl (pH 8.0@25°C)

0.017% SDS

0.015% Orange G

Preparation: The double-stranded DNA is digested to completion with appropriate restriction enzymes, phenol extracted and equilibrated in storage buffer.

Usage Recommendation: We recommend loading 5 to 20 µl (0.25 µg to 1 µg) of the Mass DNA Ladder per gel lane. For a more accurate mass estimation, always compare the samples intensity to the ladder's band of nearest size. The loading volume and the loading buffer for the samples and the Mass DNA Ladder should be the same whenever possible.

The amount of DNA in each of the bands in our Mass DNA Ladder is indicated for the different loads:

Fragment	Kilobases	ng/5 µl	ng/10 µl	ng/15 µl	ng/20 µl
1	10.0	80	160	240	320
2	6.0	60	120	180	240
3	4.0	40	80	120	160
4	3.0	25	50	75	100
5	2.0	20	40	60	80
6	1.0	15	30	45	60
7	0.5	10	20	30	40

Notes: Mass DNA Ladder is stable for at least 6 months at 25°C.

For long term storage. Store at 4°C or –20°C. If stored at –20°C, mix well after thawing.

Reference:

1. Sambrook, J., Fritsch, E. F. and Maniatis, T. (1989). *Molecular Cloning: A Laboratory Manual*, (2nd ed.), (pp. 10.51–10.67). Cold Spring Harbor: Cold Spring Harbor Laboratory Press.

ng kb
240 10.0 –
180 6.0 –
120 4.0 –
75 3.0 –
60 2.0 –
45 1.0 –
30 0.5 –



Mass DNA Ladder.
Mass values are for
0.75 µg/lane.

CERTIFICATE OF ANALYSIS

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