Quick-Load® Low Molecular Weight DNA Ladder

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

N0474S 004130215021

N0474S

125 gel lanes (1.25 ml) **Lot: 0041302**

50 µg/ml **Store at 4°C** **Exp: 2/15**

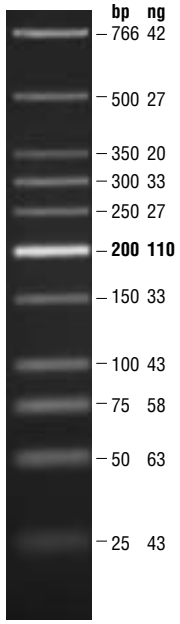
Description: Quick-Load® Low Molecular Weight DNA Ladder is a pre-mixed, ready-to-load molecular weight marker containing bromophenol blue as a tracking dye.

The DNA Ladder consists of a proprietary plasmid which is digested to completion with appropriate restriction enzymes to yield 11 bands suitable for use as molecular weight standards for agarose gel electrophoresis. This digested DNA includes fragments ranging from 25–766 base pairs. The 200 base pair band has increased intensity to serve as a reference point.

Supplied in: 2.5% Ficoll-400, 11 mM EDTA, 3.3 mM Tris-HCl (pH 8.0 @ 25°C), 0.017% SDS and 0.015% bromophenol blue.

Usage Recommendation: We recommend loading 10 µl (0.5 µg) of Quick-Load Low Molecular Weight DNA Ladder per gel lane. The Quick-Load Low Molecular Weight DNA Ladder is not intended for precise quantification of DNA mass but can be used for approximating the mass of DNA in comparably intense samples of similar size. The approximate mass of DNA in each of the bands in our Quick-Load Low Molecular Weight DNA Ladder is indicated assuming a 10 µl (0.5 µg) load.

Ready-to-load, Stable at 25°C



Quick-Load LMW DNA Ladder visualized by ethidium bromide staining on a 1.8% TBE agarose gel. Mass values are for 0.5 µg/lane.

Fragment	Base Pairs	DNA Mass
1	766	42 ng
2	500	27 ng
3	350	20 ng
4	300	33 ng
5	250	27 ng
6	**200**	**110 ng**
7	150	33 ng
8	100	43 ng
9	75	58 ng
10	50	63 ng
11	25	43 ng

(see other side)

CERTIFICATE OF ANALYSIS

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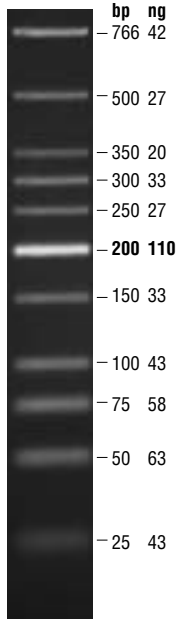

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CERTIFICATE OF ANALYSIS

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

Notes:
Quick-Load Low Molecular Weight 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: 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.

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